



|| Tamaso ma Jyotirgamaya ||  
Shri Someshwar Shikshan Prasarak Mandal's

Phone (02112) 282728 283187

# SOMESHWAR SCIENCE COLLEGE

Someshwarnagar, Tel. Baramati, Dist: Pune (Pin : 412 306) Maharashtra, India  
(Affiliated to Savitribai Phule Pune University, Pune)

Estd : 2007

Govt. Reg. No. N.G.C. 2007(189/07) Mash-3, Dt. 2 July 2007 College Code 827 University Appvl. No. IDNo. PU/PN/S/284/2007

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4	Mentor-Mentee list
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Principal  
Someshwar Science College, Someshwarnagar



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## Strategy adopted for slow learners

- 1) Teacher to student Mentoring
- 2) Simplified learning materials/notes
- 3) Home assignments, previous Qp solving
- 4) Extra lectures
- 5) Induction Program

## Strategy adopted for advanced learners

- 1) Participation in various activities like Quiz ,poster presentation, Workshops, Avishkar ,Cultural competition, C programming
- 2) Provision of library books



  
Principal  
Someshwar Science College, Someshwarnagar

## NOTICE (18/08/2023)

Class teacher of F.Y.B.Sc and F.Y.B.Cs are here by informed that according to 12 th percentage divide your students into slow learner and advance learner. Send this data Asst.prof.Raut P.N.(Dept.of chemistry) upto 29 August 2023.

percentage	Type of learner
Less than 50	Slow learner
Greater than or equal to 50 & less than or equal to 70	Medium learner
Above 70	Advance learner

  
Principal

Principal  
Someshwar Science College, Someshwarnagar

## NOTICE ( 19/09/2023)

Class teacher of M.Sc I are here by informed that according to T.Y.B.Sc percentage divide your students into slow learner and advance learner. Send this data Asst.prof.Raut P.N.(Dept.of chemistry) upto 29 September 2023.

percentage	Type of learner
Less than 50	Slow learner
Greater than or equal to 50 & less than or equal to 70	Medium learner
Above 70	Advance learner

  
Principal

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Someshwar Science College, Someshwarnagar



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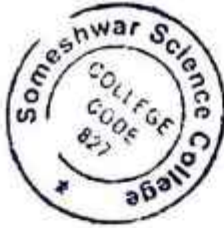
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### Identification of slow and Advanced learners

- 1) Analysis of previous years result
- 2) Observation of students during practicals.
- 3) Result Analysis of internal examination
- 4) Involvement of students in various learning processes



  
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Ref.No: SVM/

Date:-29/8/20

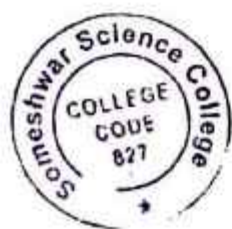
Identificatin data of type of Learner of F.Y.B.Sc

Sr.No	Roll No	Name of the student	12th Percentage	Type of learner
1	1001	SAWANT SNEHA RAMDAS	57.33	Medium
2	1002	HULAGE SAMRUDDHI HANUMANT	58.67	Medium
3	1003	KAKADE AKANKSHA VIKAS	52.5	Medium
4	1005	NALAWADE RUCHIKA MANOJ	45.5	Slow
5	1006	BHOSALE SAYALI SANTOSH	41.17	Slow
6	1007	SALUNKE RUTUJA HEMANT	49.33	Slow
7	1008	THOPATE SANIKA SUNIL	48.33	Slow
8	1009	PAWAR KHUSHI MALHARI	50.5	Medium
9	1010	BANKAR POOJA MOHAN	46.67	Slow
10	1011	SHIRTODE VAIBHAV GANESH	44.17	Slow
11	1012	DHUMAL SHREYA AJIT	52.5	Medium
12	1013	INGALE JAY DATTATRAY	42.83	Slow
13	1014	YELE PURVA SURESH	47.12	Slow
14	1015	JAGTAP NIKHIL SHANTARAM	48.67	Slow
15	1016	KHARADE PRACHI PRADIP	55	Medium
16	1017	KARCHE KARAN BALASAHEB	75.5	Advance
17	1018	MORE VAIBHAV DILIP	54.67	Medium
18	1020	BANDGAR SHUBHAM NANASO	66.83	
19	1021	YELE AKASH MACHINDRA	42	Slow
20	1022	GOPHANE AKSHADA PANDURANG	51	Medium
21	1023	DANGE MUSKAN AHAMAD	50.67	Medium
22	1024	MAGHADE PRATIK KASHINATH	44.17	Slow
23	1026	PINGALE YOGESH SURESH	47	Slow
24	1027	SHINDE PAYAL SAMBHAJI	56	Medium
25	1028	SONAWANE GAURI SANTOSH	46.83	Slow
26	1029	JADHAV PAYAL RAJENDRA	48.5	Slow
27	1030	IVARE OM SATISH	52.17	Medium
28	1031	AGAM SHRUSHTI SACHIN	46.5	Slow
29	1032	BANKAR PRATIKSHA DADASO	48.83	Slow
30	1033	SANKPAL VAISHNAVI SURYAJI	52.5	Medium
31	1034	MANDHARE SAYALI DASHARATH	52.83	Medium
32	1035	MANE SNEHA SANJAY	52.67	Medium



33	1036	ZUNJAR NIKITA SANTOSH	43	Slow
34	1038	SONAWANE ASMITA ANKUSH	58	Medium
35	1040	MORE SUPRIYA POPAT	46.33	Slow
36	1041	KAHAR ANJALI RAMESHPRASAD	41.17	Slow
37	1043	MULANI SOHEL LALABHAI	68.83	Medium
38	1044	GAIKWAD SAHIL SUNIL	67.5	Medium
39	1045	GAIKWAD KARTIKI RAHUL	79	Advance
40	1046	WAGHMARE BHAGYASHRI SOMNTH	44.67	Slow
41	1047	DALAVI SAMRUDHI RAJARAM	74	Advance
42	1048	TAMBE PAYAL JALINDAR	46.33	Slow
43	1049	GAIKWAD DIPAK SHARAD	42.83	Slow
44	1051	GAIKWAD VAIBHAV DADASO	39.5	Slow
45	1052	JADHAV SHUBHAM VIJAY	50.67	Medium
46	1053	MOTE ASMITA MUKUND	47.17	Slow
47	1054	HARIHAR PRANAVI KIRAN	43	Slow
48	1055	CHAVAN PRAJKTA RAVSAHEB	46.67	Slow
49	1056	TAMBE SANSKRUTI MAHENDRA	52.83	Medium
50	1057	MANE RUPALI SANTOSH	49.83	Slow
51	1058	BHANDALKAR PRANAV SUBHASH	57.83	Medium
52	1059	MOTE BALAJI BAPU	50.33	Medium
53	1061	PAWAR JIDNYASA BHARAT	48.17	Slow
54	1062	BHAPKAR SEJAL RAJENDRA	41.17	Slow
55	1064	PATOLE TANUJA HANUMANT	43.17	Slow
56	1065	DHAIGUDE PRANAV PANDURANG	53	Medium
57	1066	DHAIGUDE SAKSHI KALYAN	53.67	Medium
58	1067	JADHAV SHILPA VIJAY	49.83	Slow
59	1068	MADKAR ANUJ PRAKASH	57.83	Medium
60	1069	THOMBARE DIVYA BABASO	50.33	Medium
61	1070	GORGAL OMKAR SAMPAT	45	Slow
62	1071	MANE MEGHA DURYODHAN	49	Slow
63	1072	JADHAV SHRUTI NANDKUMAR	55.67	Medium
64	1073	NAVALE SIDDHI MOHAN	68	Medium
65	1074	BHOSALE SAI CHANDRAKANT	45.17	Slow
66	1075	MORE TEJASWI MUGUT	45.5	Slow
67	1076	PAWAR SUMIT SATISH	52.83	Medium
68	1078	BORKAR MANOHAR PRASAD	45.67	Slow
69	1079	KACHARE HARSHAD NAMDEV	45.83	Slow
70	1080	KARNAWAR AMRUTA PRAVIN	54.83	Medium
71	1081	GAWADE DHANASHRI DATTATRAY	61.67	Medium
72	1083	MANE PRAVARSH PRAMOD	60	Medium
73	1084	YELE ROHAN DHULA	42.5	Slow
74	1085	ARJUN ANIKET BAPU	43.83	Slow
75	1086	JADHAV SUHANI ARUN	73.67	Advance
76	1087	KHOMANE SAKSHI POPAT	77.17	Advance
77	1088	PAWAR SUSHAMA POPAT	51	Medium
78	1089	GADHAVE SIDDHI VIKAS	65.17	Medium

79	1090	NIKAM ATHARV VILAS	58.46	Medium
80	1092	SURYAWANSHI TANMAY RAVINDRA	77.67	Advance
81	1093	JADHAV AAKANKSHA SAVATA	57.33	Medium
82	1094	YADAV VAIBHAV DHANAJI	47.33	Slow
83	1095	AGRAWAL NITIN CHANDRABHAN	59	Medium
84	1096	CHAVAN SANKET KIRAN	61	Medium
85	1098	SHIPAKULE SUHANI SOMNATH	63.67	Medium
86	1099	PATOLE PRITI KISAN	44.83	Slow
87	1100	HOLKAR AKANKSHA SANTOSH	50	Medium
88	1101	INAMDAR AYESHA NAUSHAD	49.5	Slow
89	1102	KHAJIBUDIHAL MAHAMADHAFEEJ DONGRISAB	42.17	Slow
90	1103	MULANI MUSKAN RIYAJ	88.17	Advance



*[Handwritten Signature]*  
Principal

Someshwar Science College, Someshwarnagar





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## Identificatin data of type of Learner of F.Y.B.Cs

Sr.No	Roll No	Name of the student	12th Percentage	Type of learner
1	6001	JADHAV PRATIK DATTATRAY	55.17	Medium
2	6002	SHAIKH MISBAH AKHIL	52	Medium
3	6003	JAGDALE ABHILASHA SURESH	50	Medium
4	6004	CHAVAN VAISHNAVI VIJAY	51.67	Medium
5	6005	CHAVAN SANIKA YUVRAJ	45.83	Slow
6	6006	SAWANT ANUJAY ROHIDAS	44	Slow
7	6007	SHINDE HARSHAD ABHIMANYU	47.83	Slow
8	6008	GUPTA RAJ JITENDRA	53.67	Medium
9	6009	GUPTA SHALUKUMARI JITENDRA	49.17	Slow
10	6010	SAWANT SANIKA BAPURAO	48	Slow
11	6011	RAUT RIYA RAJENDRAKUMAR	51.67	Medium
12	6012	JADHAV ARYAN SANJAY	43.5	Slow
13	6013	KUMBHAR SAKSHI GORAKH	55.67	Medium
14	6014	DHOLE RUTUJA LAXMAN	53.5	Medium
15	6015	HARSHAD KAKASO DALAVI	49.67	Slow
16	6016	PRANAV SANDIP NIGADE	50.67	Medium
17	6017	SUJIT YASHAWANT BHOSALE	42.83	Slow
18	6018	SAWANT UDAY SANJAY	42.5	Slow
19	6019	THOPATE SOURABH SANTOSH	45.5	Slow
20	6020	PADWAL PRATIK SUNIL	47.17	Slow
21	6021	HUMBE ROHAN ANIL	47.17	Slow
22	6022	BARAKADE UJWALA MANIK	60.17	Slow
23	6023	RANGOLE VAISHNAVI PURUSHOTTAM	52.67	Medium
24	6024	BANKAR SIDDHIRAJ HANUMANT	36	Slow
25	6025	SAWANT VIKRANT ANIL	46.83	Slow
26	6026	GADADARE PRAJWAL ASHOK	43.17	Slow
27	6027	KADAM ANJALI SHIVAJI	43	Slow
28	6028	BOBADE SHIVANI ASHOK	48	Slow
29	6029	JADHAV SAKSHI GANESH	50	Medium
30	6030	KHALATE ROHAN DATTATRAY	51.83	Medium

31	6031	DHAWALE SUSHANT RAHUL	46.17	Slow
32	6032	SHINDE MANTHAN PARMESHWAR	42.5	Slow
33	6033	SONAWANE SWAPNIL HANUMANT	58.33	Medium
34	6034	JADHAV PRAGATI LAHU	48	Slow
35	6035	GHORPADE DHANRAJ VASANT	49.17	Slow
36	6036	ZENDE HARSHADA LAXMAN	50.67	Medium
37	6037	ADAGALE TANVI TUSHAR	47	Slow
38	6038	KORADE SAKSHI DIPAK	51.33	Medium
39	6039	KADAM RAKESH SUNIL	48.5	Slow
40	6040	CHAVAN PAYAL MAHADEV	46.67	Slow
41	6041	BHOSALE SUMIT PRAKASH	49.5	Slow
42	6042	DHUMAL TANUJA BHAGAWAN	52.83	Medium
43	6043	TAMBE RUSHIKESH SANDIIP	53.67	Medium
44	6044	WAGHAPURE SHUBHAM DATTATRAY	44.5	Slow
45	6045	SANKPAL PRACHI SATISH	57.5	Medium
46	6046	KADAM SANGRAM MALLIKARJUN	46.67	Slow
47	6047	BHOSALE SHREYASH SHIVAJI	47.83	Slow
48	6048	CHAUDHARI PAYAL DASHRATH	50.83	Medium
49	6049	PAWAR SAHIL SANTOSH	49	Slow
50	6050	DHUMAL RUTUJA MAMASO	72.67	Advance
51	6051	PHALKE SAKSHI SANTOSH	64.83	Medium
52	6052	PHALKE RUTUJA BAPU	61.83	Medium
53	6053	JADHAV PARAS SANDIP	49.67	Slow
54	6054	VEDPATHAK SNEHA UTTAM	59.33	Medium
55	6055	WABALE ABHAY SANJAY	48.5	Slow
56	6056	AGAM SHRUSHTI SANTOSH	43	Slow
57	6057	PHADTARE SHAMBHURAJE SANJAY	47.5	Slow
58	6058	SHINDE PRATHAMESH SANTOSH	43.17	Slow
59	6059	SHINDE AYUSH VILIN	60.67	Medium
60	6060	GAIKWAD KARAN CHHAGAN	69	Medium
61	6061	RASKAR PRATIK DATTATRAY	46.5	Slow
62	6062	SHINDE PRITI BABASO	77	Advance
63	6063	JAGTAP YASH SATISH	49.33	Slow
64	6064	RUSHIKESH SUBHASH DAREKAR	75.67	Advance
65	6065	GAIKWAD ABHIJIT SUNIL	48.67	Slow
66	6066	SAHIL SANTOSH MERUKAR	46.33	Slow
67	6067	KOKARE AKSHAY BHAUSAHEB	46.17	Slow
68	6068	KHADE PRERNA DHARMANATH	75	Advance
69	6069	GADEKAR PRANALI BHARAT	71.67	Advance
70	6070	MUSALE SIDDHI SUNIL	70	Medium
71	6071	BHUJBAL GAURI PRASHANT	50.33	Medium
72	6072	SONAWANE TANUJA SHRIDHAR	55.33	Medium
73	6073	SAGAR RAJENDRA BALGUDE	75.33	Advance
74	6074	SARTHAK SUDAM NEVASE	65.67	Medium
75	6075	ATHARVA SHARAD JAGDALE	45.5	Slow
76	6076	HOLKAR VAISHNAVI PANDURANG	52.67	Medium



77	6077	JADHAV ANUSHKA RAJENDRA	55.5	Medium
78	6078	SHINDE DHANASHRI VITTHAL	61.83	Medium
79	6079	NIGADE SANSKRUTI SANDIP	57.5	Medium
80	6080	PAWAR HARSHADA GORAKH	52.83	Medium
81	6081	GANDHI SWARALI SACHIN	55	Medium
82	6082	KAZI SOHEL KHALIL	48.5	Slow
83	6083	DHAYGUDE SUPRIYA KANTILAL	49	Slow
84	6084	MADANE AMRUTA BALASAHEB	46.17	Slow
85	6086	MALSHKARE PRANAV HEMANT	43.83	Slow
86	6087	THOMBARE SHREYASH MOHAN	41.83	Slow
87	6088	JEDHE SHRAVANI MADAN	51.5	Medium
88	6089	KHATAL PRANALI RAJENDRA	51.5	Medium

Jay Paps



  
Principal  
Someshwar Science College Someshwar

*Shri Someshwar Shikshan Prasarak Mandal's*  
**Someshwar Vidnyan Mahavidyalaya,**  
 Someshwarnagar, Baramati.  
**FYBSc-B 2023-24**  
**Mentor-Mentee List**

Sr. No.	Roll No	Name of Mentee	Mentor
1.	1001	Sawant Sneha Ramdas	Ms. J. M. Bhosale
2.	1002	Hulage Samruddhi Hanumant	
3.	1003	Kakade Akanksha Vikas	
4.	1004	Kumbhar Ritesh Anup	
5.	1005	Nalawade Ruchika Manoj	
6.	1006	Bhosale Sayali Santosh	
7.	1007	Salunke Rutuja Hemant	
8.	1009	Pawar Khushi Malhari	
9.	1010	Bankar Pooja Mohan	
10.	1012	Dhumal Shreya Ajit	
11.	1014	Yele Purva Suresh	Ms. M. S. Bhandwalkar
12.	1015	Jagtap Nikhil Shantaram	
13.	1016	Kharade Prachi Pradip	
14.	1018	More Vaibhav Dilip	
15.	1021	Yele Akash Machindra	
16.	1022	Gophane Akshada Pandurang	
17.	1023	Dange Muskan Ahamad	
18.	1026	Pingale Yogesh Suresh	
19.	1027	Shinde Payal Sambhaji	
20.	1028	Sonawane Gauri Santosh	



Sr. No.	Roll No	Name of Mentee	Mentor
21.	1030	Ivare Om Satish	Ms. P. P. Shinde
22.	1031	Agam Shrushti Sachin	
23.	1032	Bankar Pratiksha Dadaso	
24.	1033	Sankpal Vaishnavi Suryaji	
25.	1034	Mandhare Sayali Dasharath	
26.	1036	Zunjar Nikita Santosh	
27.	1038	Sonawane Asmita Ankush	
28.	1040	More Supriya Popat	
29.	1041	Kahar Anjali Rameshprasad	
30.	1042	Jadhav Payal Rajendra	
31.	1043	Mulani Soheli Lalabhai	Ms. M. D. Yadav
32.	1044	Gaikwad Sahil Sunil	
33.	1045	Gaikwad Kartiki Rahul	
34.	1046	Waghmane Bhagyashri Somanath	
35.	1047	Dalavi Samruddhi Rajaram	
36.	1048	Tambe Payal Jalindar	
37.	1049	Gaikwad Dipak Shrad	
38.	1051	Gaikwad Vaibhav Dadaso	
39.	1052	Jadhav Shubham Vijay	
40.	1053	Mote Asmita Mukund	



Sr. No.	Roll No	Name of Mentee	Mentor
41.	1054	Harihar Pranavi Kiran	Ms. K. P. Madane
42.	1055	Chavan Prajka Ravsaheb	
43.	1056	Tambe Sanskruti Mahendra	
44.	1057	Mane Rupali Santosh	
45.	1061	Pawar Jidnyasa Bharat	
46.	1062	Bhapkar Sejal Rajendra	
47.	1065	Dhaigude Pranav Pandurang	
48.	1066	Dhaigude Sakshi Kalyan	
49.	1067	Jadhav Shilpa Vijay	
50.	1069	Thombare Divya Babaso	
51.	1071	Mane Megha Duryodhan	Mr. R. S. Nikalje
52.	1073	Navale Siddhi Mohan	
53.	1074	Bhosale Sai Chandrkant	
54.	1075	More Tejaswi Mugut	
55.	1077	Gaikwad Gayatri Vijay	
56.	1078	Borkar Manohar Prasad	
57.	1079	Kachare Harshad Namdev	
58.	1080	Karnawar Amruta Pravin	
59.	1081	Gawade Dhanashri Dattatray	
60.	1083	Mane Pravarsh Pramod	

Sr. No.	Roll No	Name of Mentee	Mentor
61.	1084	Yele Rohan Dhula	Ms. S. D. Pawar
62.	1085	Arjun Aniket Bapuso	
63.	1086	Jadhav Suhani Arun	
64.	1087	Khomane Sakshi Popat	
65.	1088	Pawar Sushma Papat	
66.	1089	Gadhawe Siddhi Vikas	
67.	1090	Nikam Atharv Vilas	
68.	1093	Jadhav Aakanksha Savata	
69.	1098	Shipakule Suhani Somnath	
70.	1099	Patole Priti Kisan	
71.	1100	Holkar Akanksha	Mr. S. P. Thombare
72.	1101	Inamdar Ayesha Naushad	
73.	1102	Khaji Budhihal Mohammad Hafcez Dongrisab	
74.	1103	Mulani Muskan Riyaj	



  
Principal  
Someshwar Science College, Someshwar

Shri Someshwar Shikshan Prasarak Mandal's  
**Someshwar Science College Someshwarnagar**  
 F.Y.B.Sc(Computer Science) A.Y.2023-24  
**Mentor -Mentee List**

Roll No	Student Name	Mentor Name
1	ADAGALE TANVI TUSHAR	<b>Jagtap R S</b>
2	AGAM SHRUSHTI SANTOSH	
3	BALGUDE SAGAR RAJENDRA	
4	BANKAR SIDDHIRAJ HANUMANT	
5	BARAKADE UJWALA MANIK	
6	BHOSALE SHREYESH SHIVAJI	
7	BHOSALE SUJIT YASHWANT	
8	BHOSALE SUMIT PRAKASH	
9	BHUJBAL GAURI PRASHANT	
10	BOBADE SHIVANI ASHOK	
11	CHAUDHARI PAYAL DASHRATH	
12	CHAVAN PAYAL MAHADEV	<b>Jagtap P S</b>
13	CHAVAN SANIKA YUVRAJ	
14	CHAVAN VAISHNAVI VIJAY	
15	DALAVI HARSHAD KAKASO	
16	DAREKAR RUSHIKESH SHUBHAS	
17	DHAWALE SUSHANT RAHUL	
18	DHOLE RUTUJA LAXMAN	
19	DHUMAL RUTUJA MAMASO	
20	DHUMAL TANUJA BHAGAWAN	
21	GADEKAR PRANALI BHARAT	
22	GAIKWAD ABHIJIT SUNIL	<b>Bansode D V</b>
23	GAIKWAD KARAN CHHAGAN	
24	GHORPADE DHANRAJ VASANT	
25	GUPTA RAJ JITENDRA	
26	GUPTA SHALUKUMARI JITENDRA	
27	HOLKAR VAISHNAVI PANDURANG	
28	HUMBE ROHAN ANIL	
29	JADHAV ANUSHKA RAJENDRA	
30	JADHAV ARYAN SANJAY	
31	JADHAV PARAS SANDIP	






32	JADHAV PRAGATI LAHU	<b>Adsul P.S</b>
33	JADHAV PRATIK DATTATRAY	
34	JADHAV SAKSHI GANESH	
35	JAGDALE ABHILASHA SURESH	
36	JAGDALE ATHARVA SHARAD	
37	JAGTAP YASH SATISH	
38	KADAM ANJALI SHIVAJI	
39	KADAM RAKESH SUNIL	
40	KADAM SANGARAM MALLIKARJUN	
41	KORADE SAKSHI DIPAK	
42	KHADE PRERNA DHARMANATH	
43	KHALATE ROHAN DATTATRAY	
44	KOKARE AKSHAY BHAUSAHEB	
45	KUMBHAR SAKSHI GORAKH	
46	MERUKAR SAHIL SANTOSH	
47	MUSALE SIDDHI SUNIL	
48	NEVASE SARTHAK SUDAM	
49	NIGADE PRANAV SANDIP	
50	NIGADE SANSKRUTI SANDIP	
51	PADWAL PRATIK SUNIL	
52	PAWAR HARSHADA GORAKH	
53	PAWAR SAHIL SANTOSH	
54	PHADTARE SHAMBHURAJE SANJAY	
55	PHALKE RUTUJA BAPU	<b>Pingale G</b>
56	PHALKE SAKSHI SANTOSH	
57	RANGOLE VAISHNAVI PURUSHOTTAM	
58	RASKAR PRATIK DATTATRAY	
59	RAUT RIYA RAJENDRAKUMAR	
60	SANKPAL PRACHI SATISH	
61	SAWANT ANUJAY ROHIDAS	
62	SAWANT SANIKA BAPURAO	
63	SAWANT UDAY SANJAY	
64	SAWANT VIKRANT ANIL	
65	SHAIKH MISBAH AKHIL	
66	SHINDE AYUSH VILIN	
67	SHINDE DHANASHRI VITTHAL	



68	SHINDE HARSHAD ABHIMANYA	<b>Randive S M</b>
69	SHINDE MANTHAN PARAMESHWAR	
70	SHINDE PRATHAMESH SANTOSH	
71	SHINDE PRITI BABASO	
72	SONAWANE SWAPNIL HANUMANT	
73	SONAWANE TANUJA SHIRIDHAR	
74	TAMBE RUSHIKESH SANDIP	
75	THOPATE SAURABH SANTOSH	
76	VEDPATHAK SNEHA UTTAM	
77	WABALE ABHAY SANJAY	
78	WAGHAPURE SHUBHAM DATTATAY	
79	ZENDE HARSHADA LAXMAN	
80	SWARALI SACHIN GANDHI	
81	KAZI SOHAIL KHALIL	
82	DHAYGUDE SUPRIYA KANTILAL	
83	GADADARE PRAJWAL ASHOK	
84	MADANE AMRUTA BALASAHEB	
85	MALSHIKARE PRANAV HEMANT	
86	THOMBARE SHREYASH MOHAN	
87	JEDHE SHRAVANI MADAN	
88	KHATAL PRANALI RAJENDRA	



  
 Principal  
 Someshwar Science College, Someshwarnagar

Shri Someshwar Shikshan Prasark Mandal's  
**SOMESHWAR VIDNYAN MAHAVIDYALAY**  
 FY B.Sc COMP. SCI. 2023-24

Sem - II  
 Assignment Attendance

Sub. Continuous Probability dist<sup>n</sup> & Testing of hyp

Sr. No.	Student Name	Assign 1	Assign 2	Assign 3	Assign 4	Assign 5
1	ADAGALE TANVI TUSHAR	<u>Adagale</u>	<u>Adagale</u>	<u>Adagale</u>	<u>Adagale</u>	<u>Adagale</u>
2	AGAM SHRUSHTI SANTOSH	<u>Shrushti</u>	<u>Shrushti</u>	<u>Shrushti</u>	<u>Shrushti</u>	
3	BALGUDE SAGAR RAJENDRA	<u>Balguke</u>				
4	BANKAR SIDDHIRAJ HANUMANT					
5	BARAKADE UJWALA MANIK	<u>Unbs</u>	<u>Unbs</u>	<u>Unbs</u>	<u>Unbs</u>	
6	BHOSALE SHREYESH SHIVAJI				<u>SB</u>	
7	BHOSALE SUJIT YASHWANT	<u>S.Y.B</u>	<u>S.Y.B</u>	<u>S.Y.B</u>	<u>S.Y.B</u>	
8	BHOSALE SUMIT PRAKASH					
9	BHUJBAL GAURI PRASHANT					
10	BOBADE SHIVANI ASHOK	<u>SB</u>	<u>SB</u>	<u>SB</u>	<u>SB</u>	
11	CHAUDHARI PAYAL DASHRATH	<u>Payal</u>	<u>Payal</u>	<u>Payal</u>	<u>Payal</u>	
12	CHAVAN PAYAL MAHADEV	<u>Payal</u>	<u>Payal</u>	<u>Payal</u>	<u>Payal</u>	
13	CHAVAN SANIKA YUVRAJ	<u>Shavan</u>	<u>Shavan</u>	<u>Shavan</u>	<u>Shavan</u>	
14	CHAVAN VAISHNAVI VIJAY	<u>W</u>	<u>W</u>	<u>W</u>	<u>W</u>	
15	DALAVI HARSHAD KAKASO	<u>H.K.D</u>	<u>H.K.D</u>	<u>H.K.D</u>	<u>H.K.D</u>	
16	DAREKAR RUSHIKESH SHUBHAS	<u>R.S.D</u>	<u>R.S.D</u>	<u>R.S.D</u>	<u>R.S.D</u>	
17	DHAWALE SUSHANT RAHUL	<u>S.R.D.</u>	<u>S.R.D.</u>	<u>S.R.D.</u>	<u>S.R.D.</u>	
18	DHOLE RUTUJA LAXMAN	<u>R</u>	<u>R</u>	<u>R</u>	<u>R</u>	
19	DHUMAL RUTUJA MAMASO	<u>Payal</u>	<u>Payal</u>	<u>Payal</u>	<u>Payal</u>	
20	DHUMAL TANUJA BHAGAWAN	<u>Dhumal</u>	<u>Dhumal</u>	<u>Dhumal</u>	<u>Dhumal</u>	
21	GADEKAR PRANALI BHARAT	<u>Gadekar</u>	<u>Gadekar</u>	<u>Gadekar</u>	<u>Gadekar</u>	
22	GAIKWAD ABHIJIT SUNIL	<u>A.S.Gaikwad</u>	<u>A.S.Gaikwad</u>	<u>A.S.Gaikwad</u>	<u>A.S.Gaikwad</u>	
23	GAIKWAD KARAN CHHAGAN	<u>Gaikwad</u>	<u>Gaikwad</u>	<u>Gaikwad</u>	<u>Gaikwad</u>	

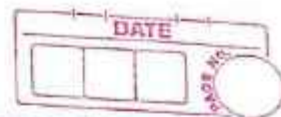
Sr. No.	Student Name	Assign 1	Assign 2	Assign 3	Assign 4	Assign 5
24	GHORPADE DHANRAJ VASANT	<u>D.V.Ghorpade</u>	<u>D.V.Ghorpade</u>	<u>D.V.Ghorpade</u>	<u>D.V.Ghorpade</u>	
25	GUPTA RAJ JITENDRA	<u>Rajgupta</u>	<u>Rajgupta</u>			
26	GUPTA SHALUKUMARI JITENDRA	<u>Shalugupta</u>	<u>Shalugupta</u>	<u>Shalugupta</u>	<u>Shalugupta</u>	
27	HOLKAR VAISHNAVI PANDURANG	<u>V.P.Holkar</u>	<u>V.P.Holkar</u>	<u>V.P.Holkar</u>	<u>V.P.Holkar</u>	
28	HUMBE ROHAN ANIL					
29	JADHAV ANUSHKA RAJENDRA	<u>Anushkajadhav</u>	<u>Anushkajadhav</u>	<u>Anushkajadhav</u>	<u>Anushkajadhav</u>	
30	JADHAV ARYAN SANJAY	<u>Aryanjadhav</u>	<u>Aryanjadhav</u>	<u>Aryanjadhav</u>	<u>Aryanjadhav</u>	
31	JADHAV PARAS SANDIP					
32	JADHAV PRAGATI LAHU	<u>Pragatijadhav</u>	<u>Pragatijadhav</u>	<u>Pragatijadhav</u>	<u>Pragatijadhav</u>	
33	JADHAV PRATIK DATTATRAY	<u>Pratikjadhav</u>	<u>Pratikjadhav</u>	<u>Pratikjadhav</u>		
34	JADHAV SAKSHI GANESH	<u>Sakshijadhav</u>	<u>Sakshijadhav</u>	<u>Sakshijadhav</u>		
35	JAGDALE ABHILASHA SURESH	<u>Abhilashajagdale</u>	<u>Abhilashajagdale</u>	<u>Abhilashajagdale</u>	<u>Abhilashajagdale</u>	
36	JAGDALE ATHARVA SHARAD	<u>Atharvajagdale</u>	<u>Atharvajagdale</u>	<u>Atharvajagdale</u>	<u>Atharvajagdale</u>	
37	JAGTAP YASH SATISH	<u>Yashjagtap</u>	<u>Yashjagtap</u>	<u>Yashjagtap</u>	<u>Yashjagtap</u>	
38	KADAM ANJALI SHIVAJI	<u>Anjalikadam</u>	<u>Anjalikadam</u>	<u>Anjalikadam</u>	<u>Anjalikadam</u>	
39	KADAM RAKESH SUNIL	<u>Rakeshkadam</u>	<u>Rakeshkadam</u>	<u>Rakeshkadam</u>	<u>Rakeshkadam</u>	
40	KADAM SANGARAM MALLIKARJUN	<u>Sangaramkadam</u>	<u>Sangaramkadam</u>	<u>Sangaramkadam</u>	<u>Sangaramkadam</u>	
41	KORADE SAKSHI DIPAK	<u>Sakshikorade</u>	<u>Sakshikorade</u>	<u>Sakshikorade</u>	<u>Sakshikorade</u>	
42	KHADE PRERNA DHARMANATH	<u>Prernakhade</u>	<u>Prernakhade</u>	<u>Prernakhade</u>	<u>Prernakhade</u>	
43	KHALATE ROHAN DATTATRAY	<u>R.K</u>	<u>R.K</u>	<u>R.K</u>	<u>R.K</u>	
44	KOKARE AKSHAY BHAUSAHEB	<u>Akshaykokare</u>	<u>Akshaykokare</u>	<u>Akshaykokare</u>	<u>Akshaykokare</u>	
45	KUMBHAR SAKSHI GORAKH	<u>Sakshikumbhar</u>	<u>Sakshikumbhar</u>	<u>Sakshikumbhar</u>	<u>Sakshikumbhar</u>	
46	MERUKAR SAHIL SANTOSH	<u>Sahilmerukar</u>	<u>Sahilmerukar</u>			
47	MUSALE SIDDHI SUNIL	<u>Siddhimusale</u>	<u>Siddhimusale</u>	<u>Siddhimusale</u>	<u>Siddhimusale</u>	
48	NEVASE SARTHAK SUDAM	<u>S.S.N</u>	<u>S.S.N</u>			

Sr. No.	Student Name	Assign 1	Assign 2	Assign 3	Assign 4	Assign 5
49	NIGADE PRANAV SANDIP	P.S.N	P.S.N.	P.S.N.	P.S.N.	
50	NIGADE SANSKRUTI SANDIP	<u>Snigade</u>	<u>Snigade</u>	<u>Snigade</u>	<u>Snigade</u>	
51	PADWAL PRATIK SUNIL					
52	PAWAR HARSHADA GORAKH	<u>Pawar.H.</u>	<u>Pawar.H.</u>	<u>Pawar.H.</u>	<u>Pawar.H.</u>	
53	PAWAR SAHIL SANTOSH					
54	PHADTARE SHAMBHURAJE SANJAY					
55	PHALKE RUTUJA BAPU	<u>Phalke</u>	<u>Phalke</u>	<u>Phalke</u>	<u>Phalke</u>	
56	PHALKE SAKSHI SANTOSH	<u>Phalke</u>	<u>Phalke</u>	<u>Phalke</u>	<u>Phalke</u>	
57	RANGOLE VAISHNAVI PURUSHOTTAM	<u>Orangole</u>	<u>Orangole</u>	<u>Orangole</u>	<u>Orangole</u>	
58	RASKAR PRATIK DATTATRAY	<u>Falk</u>	<u>Falk</u>	<u>Falk</u>	<u>Falk</u>	
59	RAUT RIYA RAJENDRAKUMAR	<u>Raut</u>	<u>Raut</u>	<u>Raut</u>	<u>Raut</u>	
60	SANKPAL PRACHI SATISH	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>	<u>Prachi</u>	
61	SAWANT ANUJAY ROHIDAS	<u>A.R Sawant</u>	<u>A.R Sawant</u>			
62	SAWANT SANIKA BAPURAO	<u>S.B. Sawant</u>	<u>S.B. Sawant</u>	<u>S.B. Sawant</u>	<u>S.B. Sawant</u>	
63	SAWANT UDYA SANJAY	<u>Sawant</u>	<u>Sawant</u>	<u>Sawant</u>	<u>Sawant</u>	
64	SAWANT VIKRANT ANIL	<u>Sawant</u>	<u>Sawant</u>			
66	SHINDE AYUSH VILIN	<u>Shinde</u>	<u>Shinde</u>	<u>Shinde</u>	<u>Shinde</u>	
67	SHINDE DHANASHRI VITTHAL	<u>Shinde</u>	<u>Shinde</u>	<u>Shinde</u>	<u>Shinde</u>	
68	SHINDE HARSHAD ABHIMANYA	<u>H.A.S</u>	<u>H.A.S</u>	<u>H.A.S</u>	<u>H.A.S</u>	
69	SHINDE MANTHAN PARAMESHWAR					
70	SHINDE PRATHAMESH SANTOSH					
71	SHINDE PRITI BABASO	<u>Shinde</u>	<u>Shinde</u>	<u>Shinde</u>	<u>Shinde</u>	
72	SONAWANE SWAPNIL HANUMANT	<u>Shi</u>	<u>Shi</u>	<u>Shi</u>		
73	SONAWANE TANUJA SHIRIDHAR	<u>Sonawane</u>	<u>Sonawane</u>	<u>Sonawane</u>	<u>Sonawane</u>	
74	TAMBE RUSHIKESH SANDIP	<u>As Tambe</u>	<u>As Tambe</u>	<u>As Tambe</u>		

Sr. No.	Student Name	Assign 1	Assign 2	Assign 3	Assign 4	Assign 5
75	THOPATE SAURABH SANTOSH	<u>Thopate</u>	<u>Thopate</u>	<u>Thopate</u>	<u>Thopate</u>	
76	VEDPATHAK SNEHA UTTAM					
77	WABALE ABHAY SANJAY	<u>Wabale</u>	<u>Wabale</u>	<u>Wabale</u>	<u>Wabale</u>	
78	WAGHAPURE SHUBHAM DATTATAY					
79	ZENDE HARSHADA LAXMAN	<u>Zende</u>	<u>Zende</u>	<u>Zende</u>	<u>Zende</u>	
80	PAWAR NIKHIL SHARAD					
81	GANDHI SWARALI SACHIN	<u>Gandhi Swarali</u>	<u>Gandhi Swarali</u>	<u>Gandhi Swarali</u>	<u>Gandhi Swarali</u>	
82	KAZI SOHEL KHALIL	<u>Kazi</u>	<u>Kazi</u>	<u>Kazi</u>	<u>Kazi</u>	
83	DHAYGUDE SUPRIYA KANTILAL	<u>Dhaygude</u>	<u>Dhaygude</u>	<u>Dhaygude</u>	<u>Dhaygude</u>	
84	MADANE AMRUTA BALASAHEB	A.B.Madane	A.B.Madane	A.B.Madane	A.B.Madane	
86	MALSHIKARE PRANAV HEMANT					
87	THOMBARE SHREYASH MOHAN					
88	JEDHE SHRAVANI MADAN	<u>Jedhe</u>	<u>Jedhe</u>	<u>Jedhe</u>	<u>Jedhe</u>	

79) Khatal Peemali Rajondea Rhatal Rhatal Rhatal Rhatal

# Assignment - 1.



∴ Random variable  $X \rightarrow B(n=6, p=\frac{1}{4})$

i.  $P(X=4)$ , ii.  $P(X=2)$ , iii.  $P(X \geq 2)$

~~$P(X=4) =$~~

$X \rightarrow B(n=6, p=\frac{1}{4})$  & its p.m.f is given by

$$P(X) = \binom{6}{x} \left(\frac{1}{4}\right)^x (0.75)^{6-x}$$

1.  $P(X=4)$

$$= \binom{6}{4} \left(\frac{1}{4}\right)^4 (0.75)^{6-4}$$

$$= \binom{6}{4} \left(\frac{1}{4}\right)^4 (0.75)^2$$

$$= 15 \times \left(\frac{1}{4}\right)^4 \times (0.75)^2$$

2.  $P(X=2)$

$$= \binom{6}{2} \left(\frac{1}{4}\right)^2 (0.75)^{6-2}$$

$$= \binom{6}{2} \left(\frac{1}{4}\right)^2 (0.75)^4$$

$$= 15 \times \left(\frac{1}{4}\right)^2 \times (0.75)^4$$

$$P(X=2) = 0.2966$$

3.  $P(X \geq 2) = 1 - P(X < 2)$

$$= 1 - P(X=0) + P(X=1)$$

$$= 1 - \binom{6}{0} \left(\frac{1}{4}\right)^0 (0.75)^{6-0} + \binom{6}{1} \left(\frac{1}{4}\right)^1 (0.75)^{6-1}$$

2. Define poisson distribution hence find mean & variance of poisson distribution also gives to real life situation.

- Solution:

Definition: A discrete random variable  $x$  taking values  $0, 1, 2, \dots$  is said to follow poisson distribution with parameter  $m$  if its probability mass function (P.M.F) is given by.

$$P(X=x) = \frac{e^{-m} m^x}{x!}; \quad x = 0, 1, 2, 3, \dots$$

$m > 0$

mean:

$$E(x) = \sum_{x=0}^{\infty} x P(x=x) = \sum_{x=0}^{\infty} x \frac{e^{-m} m^x}{x!}$$

$$= e^{-m} \sum_{x=0}^{\infty} \frac{m^x}{x!}$$

$$= e^{-m} \sum_{x=1}^{\infty} \frac{x m^x}{x!} = e^{-m} \left[ \frac{1 \times m^1}{1!} + \frac{2 \times m^2}{2!} + \frac{3 m^3}{3!} + \dots \right]$$

$$= e^{-m} \left[ \frac{m + 2m^2}{2!} + \frac{3m^3}{3!} + \dots \right]$$

$$= e^{-m} m \left[ \frac{1 + 2m}{2 \times 1!} + \frac{3m^2}{3 \times 2!} + \dots \right]$$



$$= e^{-m} m \left[ 1 + m + \frac{m^2}{2!} + \dots \right]$$

$$= e^{-m} m e^m$$

$$= m$$

$$\therefore \mu_1 = m$$

Variance

$$\text{Var}(X) = E(X)^2 - [E(X)]^2$$

$$= \mu_2 - (\mu_1)^2$$

$$E(X)^2 = \sum_{x=0}^{\infty} x^2 P(X=x)$$

$$= \sum_{x=0}^{\infty} x(x-1) + x P(x)$$

$$= \sum_{x=0}^{\infty} x(x-1) P(x) + \sum_{x=0}^{\infty} x P(x)$$

$$= \sum_{x=0}^{\infty} x(x-1) \frac{e^{-m} m^x}{x!} + \sum_{x=0}^{\infty} x \frac{e^{-m} m^x}{x!}$$

$$= \sum_{x=0}^{\infty} x(x-1) \frac{e^{-m} m^x}{x!} + m$$

$$= e^{-m} \sum_{x=0}^{\infty} x(x-1) \frac{e^{-m} m^2 m^{x-2}}{x(x-1)(x-2)!} + m$$

$$= e^{-m} \sum_{x=0}^{\infty} \frac{m^{x-2}}{(x-2)!} + m$$

$$= e^{-m} m^2 \sum_{x=0}^{\infty} \frac{m^{x-2}}{(x-2)!} + m$$

$$= e^{-m} m^2 \left[ \frac{m^0}{0!} + \frac{m^1}{0!} + \frac{m^2}{2!} + \dots \right] + m$$

$$= e^{-m} m^2 \left[ 1 + m + \frac{m^2}{2!} + \dots \right] + m$$

$$= e^{-m} m^2 e^m + m$$

$$= m + m + m$$

$$= m^2 + m$$

$$\therefore \text{Var}(x) = m^2 + m$$

Real life situations.

1. No. of persons standing in queue.

2. No. of death due to Snake bite in a certain.

3. Explain Bernouli Distribution with two realife situation.

- Solution:

Consider an experiment of tossing a coin define  $n=1$ , if head turns up &  $x=0$  if tail turn up

let  $p$  be the probability of head &  $q$  be the Probability of gerring tail, thus here,  $0 < p < 1$ ;  $q = 1-p$

If coin is unbiased, then.

$$p = q = \frac{1}{2}$$

Then P.m.f Bernouli Distribution is given by

$$P(X=x) = p^x q^{1-x}; \quad x = 0, 1$$

$$0 < p < 1$$

$$q = 1 - p$$

or

• Real life situations:

1. A student appears for the examination. He passes or fails.
2. Gender of a new born baby is recorded in a hospital. male = 1, female = 0

4. Explain geometric distribution also state lock of memory property.

solution:

The P.m.f of Geometric Distribution with parameter  $p$  is given by  $P(X=x) = pq^x; n = 0, 1, 2, \dots$

$$0 < p < 1$$

$$q = 1 - p$$

$$\text{Mean} = E(X) = \frac{q}{p}$$

$$\text{Variance} = \frac{q}{p^2}$$

Lock of memory property of geometric distribution statement. If discrete random variable  $y$  taking positive integer value having parameter  $p$ .

& it is given by

$$P(Y > 5 \text{ and } Y > 5) = P(Y > 5) (q = 1 - p)$$

5. Let  $X$  &  $Y$  are independent poisson random variables with mean 4 & 6 respectively find standard deviation of  $X+Y$ .

• solution

Poisson - mean = Variance = Parameter

$$X \rightarrow P(m_1 = 4)$$

$$Y \rightarrow P(m_2 = 6)$$

$X$  &  $Y$  independent..... By using additive property

$$Z = X + Y \rightarrow P(m_1 + m_2 = 4 + 6 = 10)$$

$$Z \rightarrow P(m_1 + m_2 = 10)$$

$$\text{Variance}(Z) = 10$$

$$\text{S.d} = \sqrt{\text{Variance}(Z)}$$

$$= \sqrt{10}$$

$$= 3.1622$$

*[Signature]*  
21/09/22

## Assignment - II



1. Explain procedure to draw Histogram.
- The histogram diagram of a continuous rectangle is known as histogram.

To draw the histogram we take the classes on x-axis & frequency on y-axis.

Note: 1. If the classes are inclusive then convert into exclusive

2. If the class width is unequal then we take frequency density on y-axis

$$\text{Frequency density} = \frac{\text{Class frequency}}{\text{class width}}$$

2. Explain the following terms with an example.

1. Inclusive class interval.

- In this type of classification the observations up to upper limit is included in the same class.

eg. 10-19 ; 20-29

2. More than cumulative frequency.

- The number of observations more than or equal to lower limit of a class is called as more than cumulative frequency.

3. Attribute

- A qualitative characteristic, like nationality, religion, grade in examination, blood group, defective of an article produced by a machine, is called as attribute.

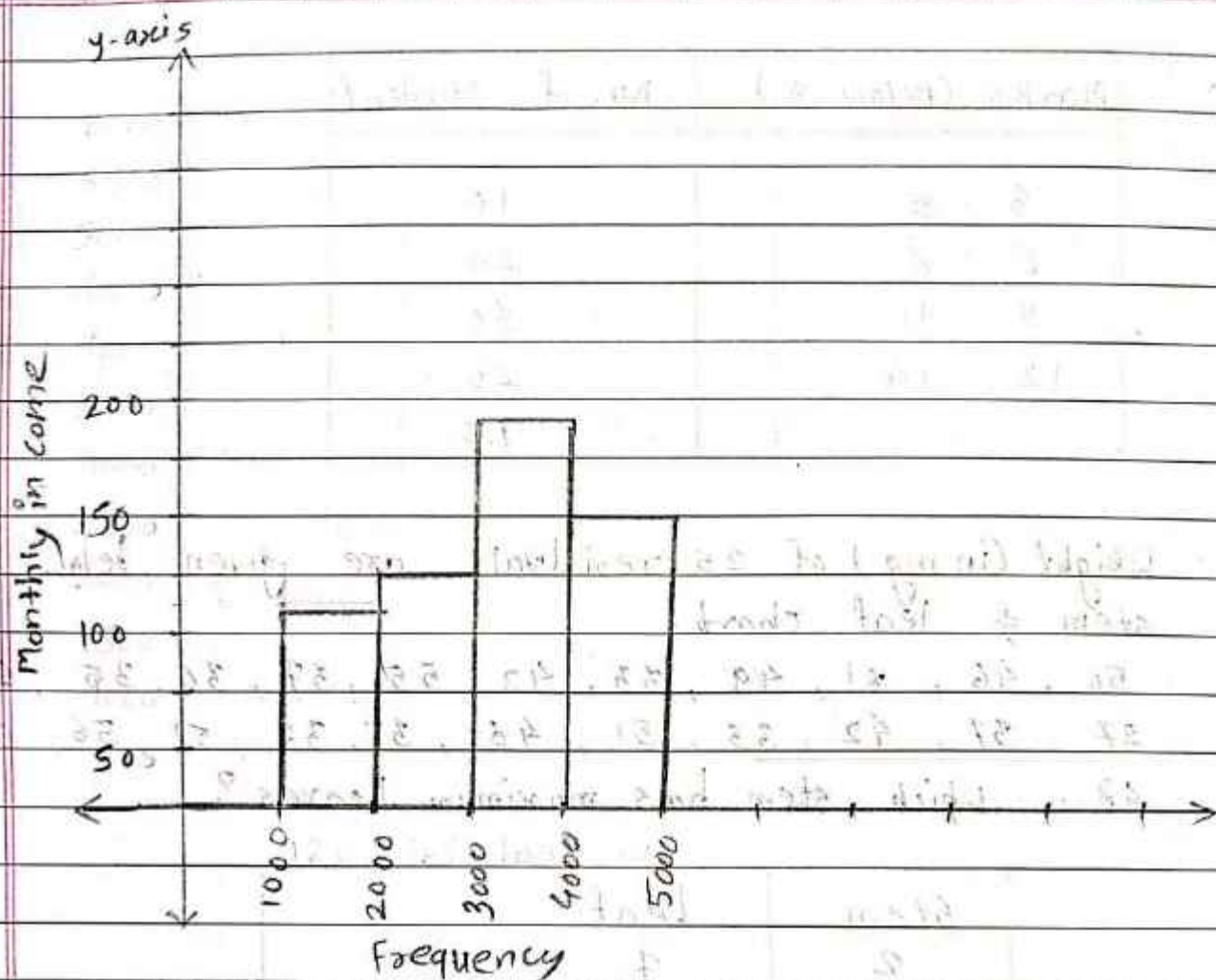
4. Discrete variable

A variable taking only particular values is called as discrete variable.

eg. Number of students in a class, population of a country.

3. Draw histogram for the following income distribution.

Income	1000-2000	2000-3000	3000-4000	4000-5000
Frequency	120	125	180	150



Explain the general guideline of choosing classes.

1. The number of class should not be too large or too small. It should be between 7 to  $\infty$
2.  $M$  (Total Frequency), if an total frequency then according to sturges rules the no. of classes are appear  $(1 + 3.322) \log N$
3. As far as possible the classes should be of uniform width.
4. As far as possible the open-end classes should be avoid.
5. The class width should be multiply of 5

Ex. The frequency distribution of mass obtain by 100 students in FYBcs class in given below.

Marks (below 3)	No. of student
3 - 5	10
6 - 8	24
9 - 11	30
12 - 14	20
	16

Weight (in mg) of 25 residuals are given below pre stem & leaf chart.

50, 46, 31, 49, 33, 42, 55, 37, 36, 35, 65, 27, 37, 42, 33, 51, 46, 31, 37, 51, 56, 51, 48... Which stem has maximum leaves?

Stem	Leaf
2	7
3	1, 1, 3, 3, 5, 6, 7, 7, 7
4	2, 2, 3, 6, 6, 8, 9
5	0, 1, 1, 1, 5, 6, 7
6	5

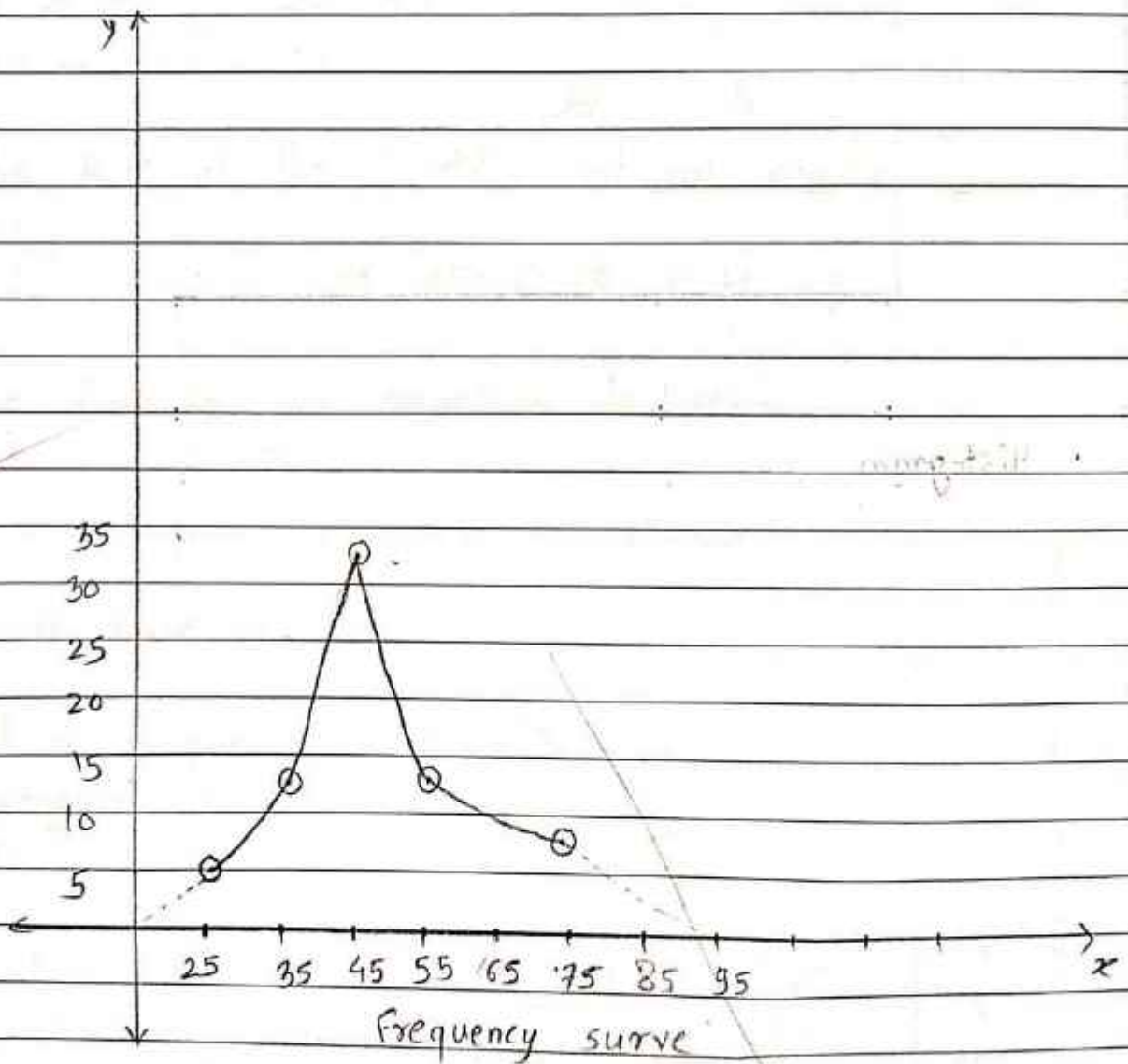
∴ stem 3 has maximum leaves.

Draw a frequency curve, frequency polygon and histogram for the following data.

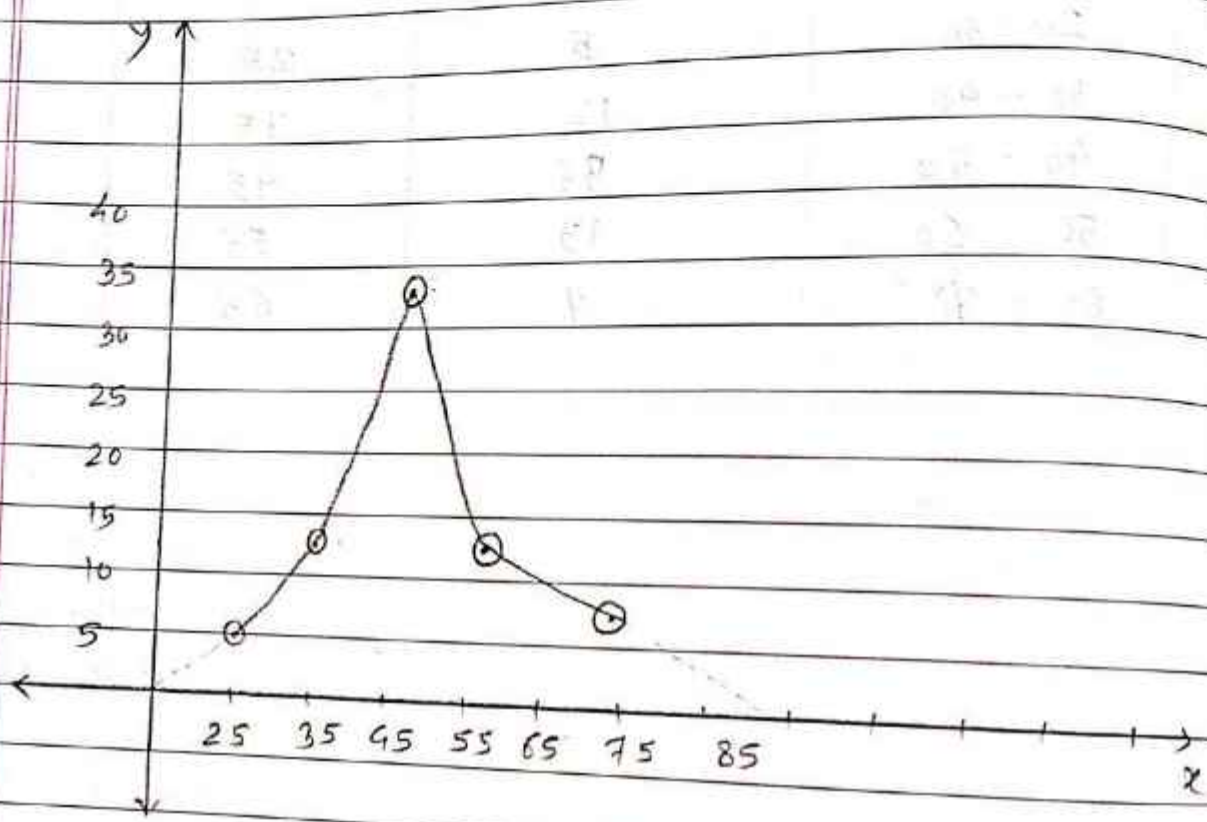
midvalue	25	35	45	55	65
Frequency	5	12	33	13	7



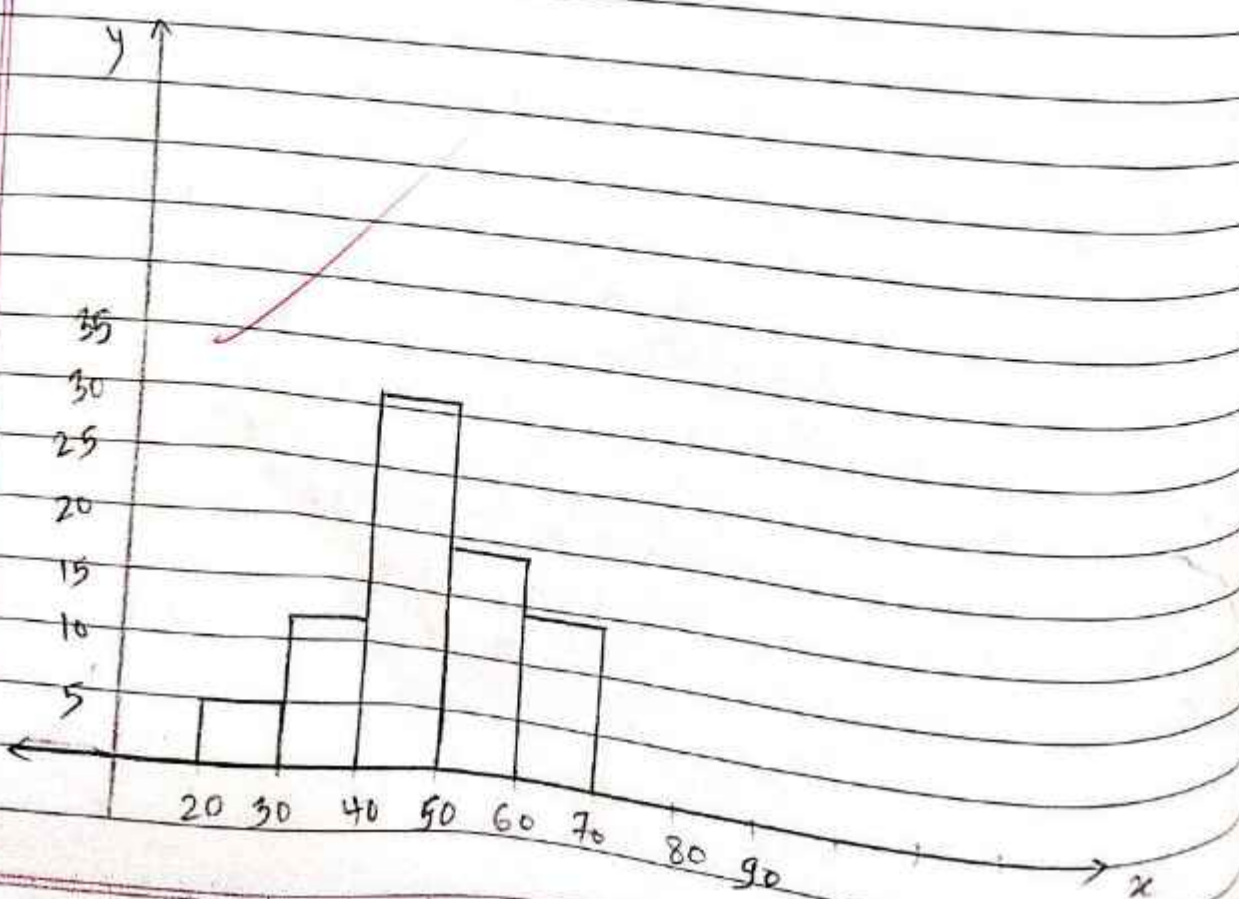
class	frequency	mid value.
20-30	5	25
30-40	12	35
40-50	33	45
50-60	13	55
60-70	7	65



### Frequency polygon.



### • Histogram



~~Topic Distribution~~  
15/11/12

## Assignment - 1.

DATE			
PAGE NO.			

1. Find Correlation coefficient between  $x$  &  $y$  given the following data.

$$n = 7, \sum X = 119, \sum x^2 = 2833, \sum Y = 87, \sum y^2 = 2385$$

$$\sum xy = 521$$

Ans  $r = \frac{\text{COV}(X, Y)}{\sigma_x \sigma_y}$

$$\bar{x} = \frac{\sum x}{n} = \frac{119}{7} = 17$$

$$\bar{y} = \frac{\sum y}{n} = \frac{87}{7} = 12.42$$

$$\begin{aligned} \text{COV}(X, Y) &= \frac{\sum x_i y_i}{n} - \bar{x} \bar{y} \\ &= \frac{521}{7} - (17)(12.42) \end{aligned}$$

$$= 74.42 - 211.14$$

$\therefore \text{COV}(X, Y) = -136.72$

$$\begin{aligned} \sigma_x^2 &= \frac{\sum x^2}{n} - (\bar{x})^2 \\ &= \frac{2833}{7} - 289 \end{aligned}$$

$$\sigma_x = \sqrt{115.7142} = 10.7570$$

$$\begin{aligned} \sigma_y^2 &= \frac{\sum y^2}{n} - (\bar{y})^2 \\ &= \frac{2385}{7} - 154.2564 \end{aligned}$$

$$\sigma_y = \sqrt{186.4642} = 13.6551$$

$$r = \frac{-136.72}{140.7375}$$

$r = -0.9317$   
 there perfect negative correlation between two variables.

2. Explain the concept of correlation for a bivariate data. Explain its type.

- The data on two variable constitute bivariate data the set of pair of obs<sup>n</sup> on two variables are called as bivariate data.

In study of correlation bet<sup>n</sup> two variables we required obs<sup>n</sup> on two related variables for every unit in a sample or group of units we observe consumption of electricity (x) & amt of electricity bill (y) for (n) families.

This have two types.

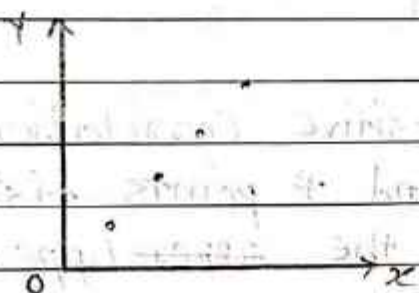
1. positive correl<sup>n</sup> - If the value of two variable change in the same direction that is increase in one variable also increase another variable & decrease in another one variable also decrease in another variable then there is positive correlation is used eg. Demand & supply of commodity.

2. Negative correlation :- A correlation is said to be negative if two variable change in opposite direction. i.e increase in one variable decrease in other variable vice versa eg. production & price of commodity.

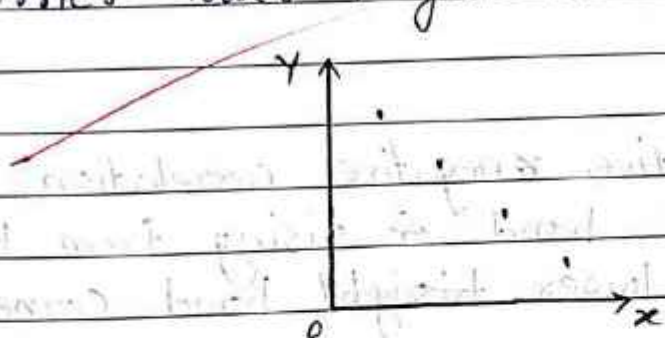
3. What is scatter diagram? How does it help in deciding nature & degree of correlation between two variable?

scatter diagram: In order to visualize the correlation between two variables scatter diagram have 7 types

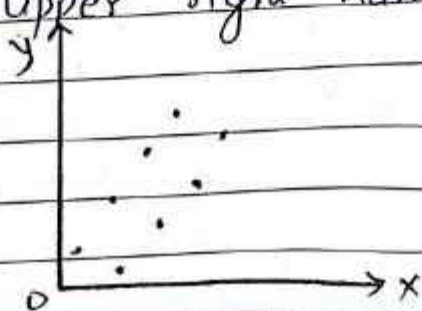
1. ~~Posit~~ Perfect positive correlation:- When plotted point in a straight line & line run upper left hand corner the to lower right hand corner.



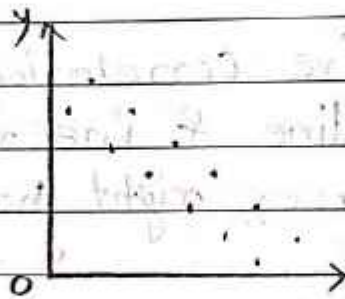
2. Perfect negative correlation:- If plotted points fall in narrow band & rising from lower left hand corner lower & right corner.



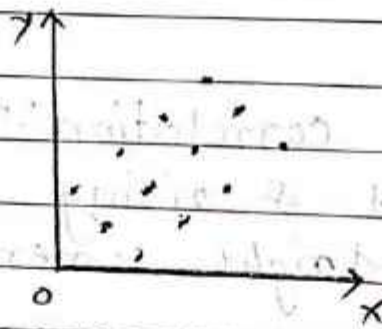
3. High degree positive correlation :- If plotted points fall in narrow band & rising from lower left hand corner to upper right hand corner.



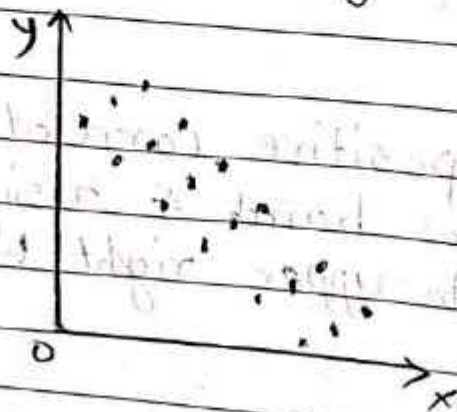
4. High degree negative correlation :- If plotted points fall in narrow band & rising from upper left hand corner to lower right hand corner.



5. lower degree positive correlation :- If plotted points fall in broad band & points rising from lower left hand corner to the upper right hand corner.



6. lower degree positive ~~negative~~ correlation - If plotted pts fall in narrow band & rising from higher left hand corner to lower right hand corner.



4. No Correlation:- If the plotted lie scattered all over the graph paper then there is no correlation between the two variable & the variable & the variable are said to be independent. In this case  $r=0$



4. If  $r = 0.89$ ,  $\sum (x - \bar{x})(y - \bar{y}) = 122$ ,  $\sum (x - \bar{x})^2 = 138$ ,  $\sum y^2 = 9.07$ , find the value of  $n$ .

$$\sum y^2 = 9.07$$

$$\sum y = \sqrt{9.07} = 3.0116$$

$$r = \frac{\text{COV}(X, Y)}{\sum x \sum y}$$

$$0.89 = \frac{1/n \sum (x - \bar{x})(y - \bar{y})}{\sqrt{1/n \sum (x_i - \bar{x})^2} \sum y}$$

$$0.89 = \frac{1/n (122)}{\sqrt{138} \cdot 3.0116}$$

$$0.89 = \frac{120}{\frac{n}{\sqrt{n}} \sqrt{138} \times 3.0116}$$

$$0.89 = \frac{120}{\sqrt{n} \sqrt{4.15.6008}}$$

$$\begin{aligned} \sqrt{n} &= 120 \\ 0.89 \sqrt{415.6008} \\ &= 120 \\ &0.89(20.3862) \\ &= 6.6158^2 \\ n &= 43.7688. \end{aligned}$$

5. If  $n=50$ ,  $\sum x = 75$ ,  $\sum y = 80$ ,  $\sum x^2 = 130$ ,  $\sum y^2 = 140$ ,  $\sum xy = 120$ . Find the value of Karl Pearson's coefficient of correlation between  $x$  &  $y$ . Interpret its value.

$$r = \frac{n \sum xy - \sum x \cdot \sum y}{\sqrt{n \sum x^2 - (\sum x)^2} \sqrt{n \sum y^2 - (\sum y)^2}}$$

$$\begin{aligned} &= \frac{50(120) - (75)(80)}{\sqrt{50 \sum x^2 - (\sum x)^2} \sqrt{50 \sum y^2 - (\sum y)^2}} \\ &= \frac{6000 - 6000}{\sqrt{6500 - 5625} \sqrt{7000 - 6400}} \end{aligned}$$

$$= \frac{0}{\sqrt{875} \sqrt{600}}$$

$$= \frac{0}{\sqrt{724.5688}}$$

$$= 0$$

6. From the following table calculate the coefficient of correlation by Karl Pearson's method.



x	6	2	10	4	8
y	9	11	8	8	7

A.M. of x & y series are 6 & 8 resp.

- let missing value be x

$$\bar{y} = \frac{\sum y_i}{n}$$

$$8 = \frac{9 + 11 + x + 8 + 7}{5}$$

$$8 = \frac{35 + x}{5}$$

$$40 = 35 + x$$

$$40 - 35 = x$$

$$5 = x$$

$$x = 5$$

x	y	x <sup>2</sup>	y <sup>2</sup>	xy
6	9	36	81	54
2	11	4	121	22
10	5	100	25	50
4	8	16	64	32
8	7	64	49	56
30	40	220	340	214

$$\bar{x} = \frac{\sum x_i}{n} = \frac{30}{5} = 6$$

$$\bar{y} = 8$$

$$S_x^2 = \frac{\sum x_i^2}{n} - (\bar{x})^2 = \frac{200}{5} - 6^2$$

$$= \frac{220}{5} - 36$$

$$\sigma_x^2 = 8 \Rightarrow \sigma_x = \sqrt{8}$$

$$\sigma_x = 2.8284$$

$$\sigma_y^2 = \frac{\sum y_i^2}{n} - (\bar{y})^2 = \frac{340}{5} - (8)^2 = 68 - 64$$

$$\sigma_y = \sqrt{4} = 2$$

$$\text{Cov}(x, y) = \frac{\sum y_i x_i}{n} - \bar{x} \bar{y}$$

$$= \frac{214}{5} - (6)(8)$$

$$= \frac{214}{5} - 48$$

$$= -5.2$$

$$r = \frac{\text{Cov}(x, y)}{\sigma_x \sigma_y}$$

$$= \frac{-5.2}{5.6568}$$

$$= -0.91924$$

4. The score of 8 students in an examination in mathematics & statistics are given below.

R.N	1	2	3	4	5	6	7	8
Mark in math	70	48	58	55	54	50	60	52
mark in stat	62	47	53	60	55	60	61	48

Find 1) Karl Pearson's coeffi. of correlation  
 2. Rank correlation coefficient & compare the two values.

$$r = \frac{\text{cov}(X, Y)}{\sigma_x \sigma_y}$$

$x_i$	$y_i$	$x_i^2$	$y_i^2$	$x_i y_i$
70	62	4900	3844	4340
48	47	2304	2209	2256
58	53	3074	2809	3074
55	60	3025	3600	3300
54	55	2916	3025	2970
50	60	2500	3600	3000
60	61	3600	3721	3660
52	48	2704	2304	2976
447	446	25023	19891	25576

$$\bar{x} = \frac{\sum x_i}{n} = \frac{447}{8} = 55.875$$

$$\bar{y} = \frac{\sum y_i}{n} = \frac{446}{8} = 55.75$$

$$\text{cov}(X, Y) = \frac{\sum x_i y_i}{n} - \bar{x} \bar{y}$$

$$= \frac{25576}{8} - (55.875)(55.75)$$

$$= \frac{25576}{8} - 3115.0312$$

$$= 81.9688$$

$$s_x^2 = \frac{\sum x_i^2}{n} - (\bar{x})^2$$

$$= \frac{25023}{8} - (55.875)^2$$

$$s_x^2 = \frac{25023}{8} - 3120.156$$

$$s_x = \sqrt{5.8594}$$

$$= 2.42069$$

$$s_y^2 = \frac{\sum y_i^2}{n} - (\bar{y})^2$$

$$= \frac{25112}{8} - (55.75)^2$$

$$= \frac{25112}{8} - 3108.0625$$

$$s_y = \sqrt{30.9375}$$

$$s_y = 5.562148$$

$$\therefore r = \frac{\text{cov}(x,y)}{s_x s_y} = 81.9688$$

$$(2.4206)(5.5621)$$

$$\frac{81.9688}{13.4636} = 6.052$$

$$r = 68.5052$$

$$R = 1 - \frac{6 \sum d_i^2}{n(n^2 - 1)}$$

Roll no.	Math Marks	Rank of $x$	state mark	Rank of $y$	$d_i = x - y$	$d_i^2$
1	70	8	62	8	0	0
2	48	1	47	1	0	0
3	58	6	53	3	3	9
4	55	5	59	5	0	0
5	54	4	55	4	0	0
6	50	2	60	6	-4	-16
7	60	7	61	7	0	0
8	52	3	48	2	1	1
						26

$$R = \frac{1 - 6(26)}{8(8^2 - 1)} = 0.6904$$

8. If  $n = 50$ ,  $\sum x = 75$ ,  $\sum y = 80$ ,  $\sum x^2 = 130$ ,  $\sum y^2 = 140$ ,  $\sum xy = 120$ . Find the value of  $r$ .

$$r = \frac{\text{Cov}(x, y)}{\sigma_x \sigma_y}$$

$$r = \frac{n \sum xy - \sum x \sum y}{\sqrt{n \sum x^2 - (\sum x)^2} \sqrt{n \sum y^2 - (\sum y)^2}}$$

$$= \frac{50 \times 120 - 75 \times 80}{\sqrt{50 \times 130 - (75)^2} \sqrt{50 \times 140 - (80)^2}}$$

$$= \frac{50 \times 120 - 75 \times 80}{\sqrt{50 \times 130 - (75)^2} \sqrt{50 \times 140 - (80)^2}}$$

$$r = \frac{50 \times 720 - 75 \times 80}{\sqrt{50 \times 180 - (75)^2} \sqrt{50 \times 140 - (80)^2}}$$

$$= \frac{6000 - 6000}{\sqrt{6500 - 5625} \sqrt{7000 - 6400}}$$

$$= \frac{0}{\sqrt{875} \sqrt{600}}$$

$$= 0$$

$29.58 \times 24.49$

$$r = 0$$

20/04/23  
 12/04/23

$$R = 1 - \frac{r(R^2 - 1)}{2rR}$$

EX 1 = 150 Find the value of r  
 If r = 20 EX 2 = 80 EX 3 = 120

$$r = \frac{\sum(X_1 - \bar{X}_1)(X_2 - \bar{X}_2)}{\sqrt{\sum(X_1 - \bar{X}_1)^2} \sqrt{\sum(X_2 - \bar{X}_2)^2}}$$

$$r = \frac{150 \times 80 - 120 \times 20}{\sqrt{(150 - 20)^2} \sqrt{(80 - 20)^2}}$$

$$r = \frac{12000 - 2400}{\sqrt{130^2} \sqrt{60^2}}$$

- Q.1. Define Algorithm and Flowchart?
- Q.2. Write the two header files.
- Q.3. Draw Flowchart & Algorithm to Find the Square of Number.
- Q.4. Write the type of programming paradigm.
- Q.5. Write the description of
  - i) getch()
  - ii) putch()
  - iii) get s()
  - iv) getchard()

Algorithm is an idea behind the program. Algorithm is expressed in pseudo code something resembling C language or pascal. The <sup>set</sup> split of unambiguous finite step. when carried out given set.

Flowchart: Flowchart is represent by step by step Algorithm.

3. Step 1 Flowchart & Algorithm.

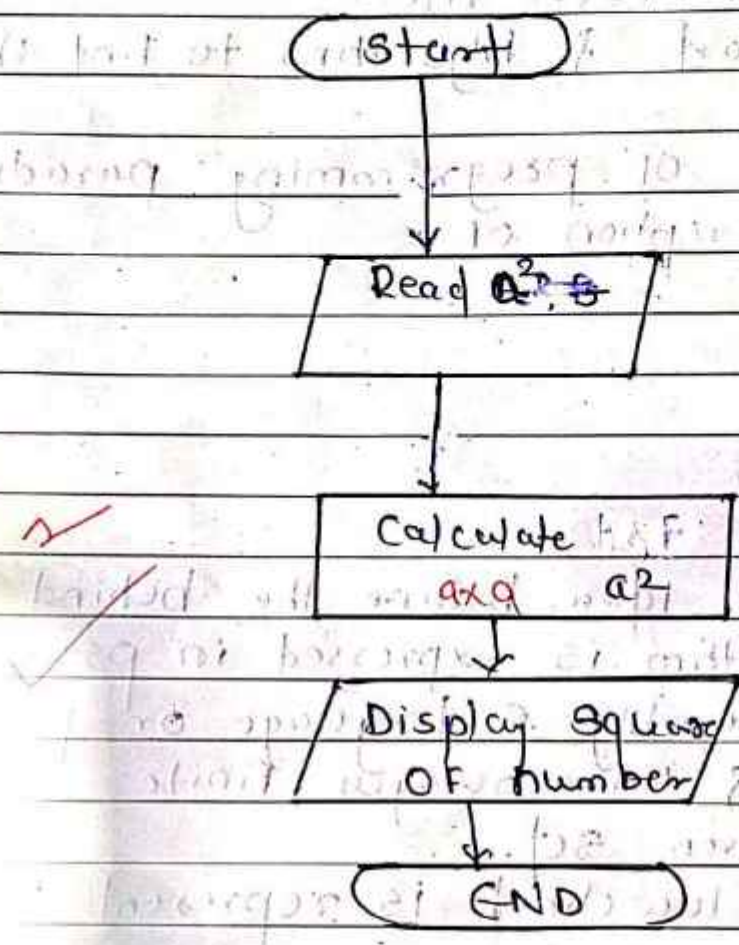
Square of Number.  
Algorithm.

- Step 1: Start
- Step 2: Read A & B  $A^2$
- Step 3: Calculate  $A^2 \times B$  ( $a \times a$ )
- Step 4: Display Square of ~~two~~ number
- Step 5: END



1

Flowchart. :-



Write description

- i) getch ( ) :- This used for any one character.
- ii) Putch ( ) :- This is used for accept of one character.
- iii) gets ( ) :- This is used for accept a string. From user & Display on the screen.
- iv) getchm ( ) :- This used for accept the one character from the user & Display on the screen & next the enter



Q. 1.

### programming paradigms

1)

Imperative paradigm

procedure paradigm

Object oriented program

parallel processing

2)

Declarative paradigm

logic oriented program

functional oriented program

Q. 2. Two header files :-

1)

~~STD~~ ~~stdio.h~~  
#include <stdio.h>

2)



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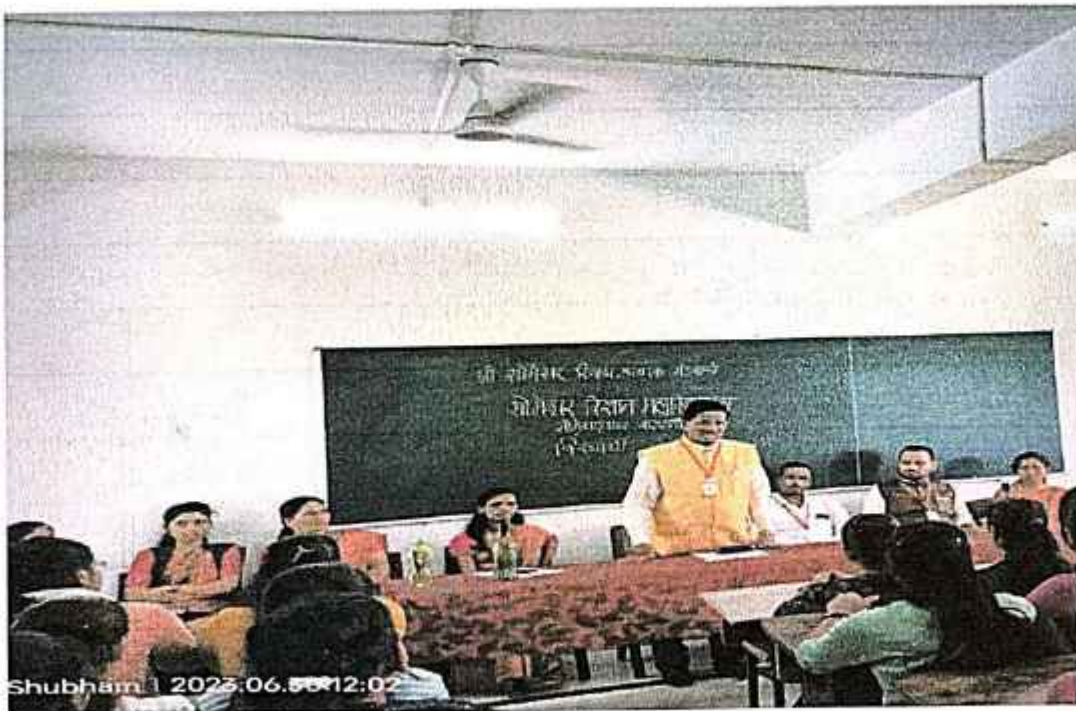
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(Affiliated to Savitribai Phule Pune University, Pune) Estd : 2007

Govt. Rag. No. N.G.C. 2007(189/07) Mashi-3, Dt. 2 July 2007 College Code 827 University Appvl. No. IDNo. PU/PN/S/284/2007

Ref.No: SVM/

Date:-

Photos of induction programme 2023-2024



  
Principal  
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## Photo of plant propagation technique and startup



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## Photo of poster , Quiz competition



  
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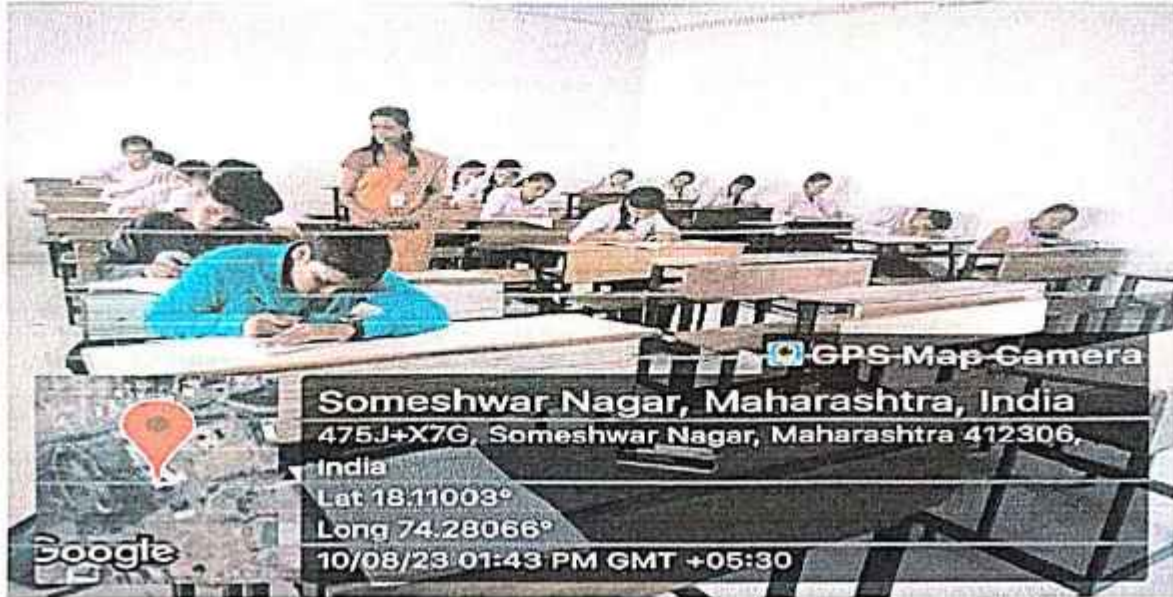
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## Photo of Essay competition



## Photo of Avishkar competition



  
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