

Output ①

Name

Sujit

Veena

Arpit

Lab Assignment - I

a) Consider the following table stud 69.

Stud-no	class	Name	Game	Grade1	SUPW	Grade2
10	7	Sameer	Cricket	B	Photography	A
11	8	Sujit	Tennis	A	Gardening	C
12	7	Kamal	Swimming	B	Photography	B
13	7	Veena	Tennis	C	Cooking	A
14	9	Archana	Basketball	A	Literature	A
15	10	Arpit	Cricket	A	Gardening	C

Write SQL command for the following statements

① Display the name of students who are getting grade 'C' in either game or supw

→ > SELECT Name FROM stud 69

where Grade1 = 'C' or Grade2 = 'C';

output (ii)

count (*)
1

output (iii)

Game
Cricket

Tennis

Swimming

Basketball

output (iv)

SUPW

Literature

Gardening

① Display the number of students getting grade A in cricket

→ > Select count (*) from stud69
where Grade1 = 'A' and Game = 'Cricket';

② Display the different games offered in the school

→ > Select DISTINCT Game
From stud69;

③ Display the supw taken by students whose name start with A.

→ > Select SUPW from stud69
where Name like 'A%';

⑥

Output VII

Stud-no	Class	Name	Game	Grade1	SUPW	Grade2
13	7	Veena	Tennis	C	Cooking	A
11	8	Sujit	Tennis	A	Gardening	C
15	10	Arpit	Cricket	A	Gardening	C
14	9	Archana	Basketball	A	Literature	A
10	7	Sameer	Cricket	B	Photography	A
12	7	Kamal	Swimming	B	Photography	C

v) Add a new column 'Marks'

→ > Alter table stud69

Add Marks double;

vi) Assign a value of 200 for all those students who are grade B or above in Game.

→ > Update stud69

Set Marks = 200

where Grade1 <= 'B';

vii) Arrang the whole table in alphabetical order to supw.

→ > Select * from stud69

order by supw;

①

Output ①

Sid	Name	UId	lname
S1	Anita Singh	102	Mumbai
S2	YP Singh	101	Delhi
S3	Tina Ag.	103	Kolkata
S4	Gurdeep Singh	102	Mumbai
S5	Sini Fizal	W3	Kolkata

Lab Assignment - 2

- Q) In a database company, there are two tables :
 i) Sales
 ii) Location

Sales			Location	
sid	Name	Sales	lid	lid
S1	Anita Singh	250000	102	101 Delhi
S2	TP Singh	1300000	101	102 Mumbai
S3	Tina Ag.	1400000	103	103 Kolkata
S4	Gurdeep Singh	1250000	102	104 Chennai
S5	Sini Fizal	1450000	103	

① Write SQL command to display sid, name of salesman, lid with the corresponding location name.

→ Select sid, Name, Sales.lid, lname
 from Sales, Location
 where Sales.lid = Location.lid;

Output ⑪

Name	Sales	Name
Tina Ag.	1400000	Kolkata
Sini Fizel	1450000	Kolkata

Output ⑫

Name
Anita Singh
TP Singh
Gurdeep Singh

⑪ Write SQL command to display name of salesman, sales amount and corresponding location name who have achieved sales more than 1300000

→ > Select Name, Sales, Lname,
from Sales, Location
Where Sales.lid = Location.lid
and Sales > 1300000;

⑫ Write SQL command to display name of those salesmen who have 'Singh' in their name

→ > Select Name from Sales
Where Name Like '%.Singh';

⑬ Write SQL command to change location id ~~104~~ to 104 of the salesman with id as S3 in the Sales

→ > Update Sales
Set lid = '104'
Where sid = 'S3';

Output ①

iCode	iName	VName
5001	Refridgerator	Satish

Lab Assignment -3

Table: SAMS

icode	iname	Price	Vcode
S001	Refridgerator	20000	P01
S002	Mobile Phone	45000	P02
S003	LCD	60000	P03
S004	Washing Machine	12500	P01
S005	A.C.	16000	P03

Table: Vendor

Vcode	VName
P01	Satish
P02	Manoj
P03	Subodh
P04	Jacob

① To display icode, iname and VName of all vendors who manufacture 'Refridgerator'.

→ Select icode, iname, VName from SAMS, Vendor
where SAMS.Vcode = Vendor.Vcode
and iname = Refridgerator ;

Output (ii)

Q1

icode	Pname	Vname	Price
S002	Mobile Phone	Manoj	45000
S003	LCD	Subodh	60000

Output (iii)

VName	Pname
Subodh	LCD
Subodh	A.C.

① Write SQL code to display iName, iCode, VName and price of all products whose price is more than 20000.

→ > Select iName, iCode, VName, Price
from SAMS, Vendor
where SAMS.Vcode = Vendor.Vcode
and price > 20000;

② Write SQL code to display Vendor name and name of all items manufactured by Vendor whose code is P03

→ > Select VName, iName from SAMS, Vendor
where SAMS.Vcode = Vendor.Vcode
and SAMS.Vcode = 'P03';

and run on each day the ball
and the man can't bring it to play.

the make back man take it
about 2MA2 and
about 2MA2 and
0302 and bus

to wear bus wear what you do at day 302 etc
201 a bus you what pd bus from until 110

Output ①

Gender	Highest Marks
F	492
M	440

Lab Assignment - 4

Table: student

Roll	Name	Class	Gender	City	Marks
1	Abhishek	XI	M	Agra	430
2	Prateek	XII	M	Mumbai	440
3	Sneha	XI	F	Agra	470
4	Nancy	XII	F	Mumbai	492
5	Himanshu	XII	M	Delhi	360
6	Anchal	XI	F	Dubai	256
7	Mehar	X	F	Moscow	324
8	Nishant	X	M	Moscow	429

① To display Gender wise highest marks;

→ Select Gender, max(Marks) as 'Highest Marks'
 from student
 Group by Gender;

Output (ii)

City	Lowest Marks
Agra	430
Delhi	360
Dubai	256
Moscow	324
Mumbai	440

Output (iii)

Gender	Number of Students
F	4
M	4

ii) To display city wise lowest marks

→ Select City min(Marks) as 'Lowest Marks'
from student
Group by city;

iii) To display total number of male and female students

→ Select Gender, count(Gender) as 'Number of Students'
from student
Group by Gender;

Output ①

Type	Avg
Minivan	925000
Wagon-R	250000

Lab Assignment - 5Lab Assignment - 5

Table: Vehicle

V_no	Type	Company	Price	Qty
AW125	Wagon-R	Maruti	250000	25
J0083	JEET	Maruti	4000000	15
S9090	SUV	Mitsubishi	2500000	18
M0892	Minivan	Dastun	1500000	26
W9760	SUV	Maruti	2500000	18
R2409	Minivan	Mahindra	350000	15

① Display Average Price of each type of- Vehicle
having quantity more than 20.

→ > Select Type, avg(Price) as AVG
from Vehicle

Group by Type
having qty > 20;

(21)

Output (ii)

Company	No.
Dustan	1
Mahindra	1
Maruti	3
Mitsubishi	1

Output (iii)

Type	Total Price
Jeep	600000
SUV	900000
Wagon - R	625000
Minivan	915000

(ii) Count the type of Vehicle manufactured by each company

→ Select Company, count (Distinct Type) as 'No.' from Vehicle
Group by company;

(iii) Display the total price of all type of vehicles

→ Select Type, sum(Price * Qty) as 'Total Price'
from vehicle
Group by Type;

Out []

A 3908

B 4508

dtype: int64

Lab Assignment - 6

- Q Create a series object 's2' that store the no. of students in each section of class 12 as given below-

A 39

1st 2 sections have been given a task of selling tickets @ ₹100 each as a part of social experiment.

B 45

C 48

D 50

Write the code to display how much they have collected (sectionwise).

→ import pandas as pd

stud = [39, 45, 48, 50]

sec = ['A', 'B', 'C', 'D']

s2 = pd.Series(data=stud, index=sec)

print(s2[:2] * 100)

out []

	2015	2016	2017
qf1	12000	10000	15000
qf2	15000	14000	16000
qf3	17000	16000	18000
qf4	19000	20000	21000

bq = schräg fogni

$$[02, 8N, 2V, PE] = bwtz$$

$$[a, \bar{a}, \bar{b}, \bar{c}, \bar{A}] = \text{??}$$

(02 = abzi, bwtz = abzb) und bq = 58

(02 * [8 :] 58) + bkg

Lab Assignment - 7

- Q) Create a dataframe object df3 from a 2d dictionary having values as dictionary object

	2015	2016	2017
qtr1	12000	10000	15000
qtr2	15000	14000	16000
qtr3	17000	16000	18000
qtr4	19000	20000	21000

→ import pandas as pd

a = { 'qtr1': 12000, 'qtr2': 15000, 'qtr3': 17000, 'qtr4': 19000 }
 b = { 'qtr1': 10000, 'qtr2': 14000, 'qtr3': 16000, 'qtr4': 20000 }
 c = { 'qtr1': 15000, 'qtr2': 16000, 'qtr3': 18000, 'qtr4': 21000 }

d = { 2015: a, 2016: b, 2017: c }

df3 = pd.DataFrame(d)

F - twelfth del

out []

Probabilistic soft cfb, bido morphato a star (2)
Soft possibile as vector given

	First	Second	Third
A	1.4	6.5	5.0
B	8.5	9.0	2.0
C	2.6	4.7	8.0

bq as string trovi

{00011: 'ftp', 00011: 'cftp', 00021: 'sftp', 00021: 'lftp'} = a
 {00011: 'vfp', 00011: 'Eftp', 00011: 'Cftp', 00011: 'Lftp'} = d
 {00011: 'Vfp', 00021: 'Edp', 00021: 'Sdp', 00021: 'Ldp'} = s

{s : d10s, d : d10s, a : z10s} = b

(b) morphato A . bq = E | b
cfb

Lab Assignment -8

Q Create a DataFrame object from 2d numpy array df5

	First	Second	Third
A	1.4	6.5	5.0
B	8.5	9.0	2.0
C	2.6	4.7	8.0

→ import pandas as pd

import numpy as np

```
narr = np.array([[1.4, 6.5, 5.0],  
                 [8.5, 9.0, 2.0],  
                 [2.6, 4.7, 8.0]])
```

```
df5 = pd.DataFrame(narr,  
                    columns=['First', 'Second', 'Third'],  
                    index=['A', 'B', 'C'])
```

df5

(29)

out[]

	people	Amount	Average
0	20	279000	13950.000000
1	30	396800	10222.222222
2	44	563000	12795.454545

bq as average togift
pr as power togift

$([0.2, 2.2, 14],) \text{no_pr} = \text{no}$
 $[6.5, 0.9, 28]$
 $([5.8, 1.4, 35])$

$(\text{no}, \text{no}) \text{ no} \rightarrow \text{no}$
 $(\text{no}, \text{no}, \text{no}) = \text{no}$
 $(\{5, 8, 14\}) = \text{no}$

2.9b

Lab Assignment -9

(Q) Consider 2 series objects staff and salaries.
It store number of people in various office branches
and salary distribution in these branches respectively.

Write a python code to create another series object
that store average salary per branch and then create
a Dataframe object from these objects.

people	Amount	Average
20	279000	
36	396800	
44	563000	

→ import pandas as pd

staff = pd.Series([20, 36, 44])

salary = pd.Series([279000, 396800, 563000])

average = salary / staff

obj = {'people': staff, 'Amount': salary, 'Average': average}

df = pd.DataFrame(obj)

df

(3)

out []

P- Durga A. dal

	Name	age
a	Rahul	20
b	Ravi	22
c	Mohan	18

agent	target	label
000PE	0	0
000PDE	28	28
000EAD	PN	PN

bg as address tag in

(EP, 28, 0) $\text{addr} \cdot \text{bg} = \text{foto}$
 (E 000EAD, 000PDE, 000PE) $\text{addr} \cdot \text{bg} = \text{proto}$
 $\text{foto} \cdot \text{proto} = \text{proto}$

Logics: 'proto' proto: 'addr' foto 'bg' = proto

Collected foto & bg = $\frac{1}{b}$

Lab Assignment - 10

- Q) Write a python code to create a Dataframe object from 2D list. The table is given below

	Name	Age
a	Rahul	20
b	Ravi	22
c	Mohan	18

→ import pandas as pd

```
l = [['Rahul', 20],  
     ['Ravi', 22],  
     ['Mohan', 18]]
```

```
df = pd.DataFrame(l, columns=['Name', 'Age'],  
                  index=['a', 'b', 'c'])
```

df.

out[]

original df

	weight	age	name
0	60	16	a
1	61	17	b
2	62	18	c

Transpose

	0	1	2
weight	60	61	62
age	16	17	18
Name	a	b	c

16

Lab Assignment -11

Q) Write a python code to create a DataFrame object to store weight, age and name of 3 people.
Print DataFrame and its transpose.

→ import pandas as pd

```
df2 = pd.DataFrame ({'weight': [60, 61, 62],  
                     'age': [16, 17, 18],  
                     'Name': ['a', 'b', 'c']})
```

```
print ('original df')  
print (df2)
```

```
print ('Transpose')  
print (df2.T)
```

Wetland area

Rock substrate & fine silt soil with
algae and mosses. Have note on
small brownish tufts to A

Brachythecium acutum

Common in shaded moist soil 3-5 ft

Commonly

(Hypnum) tress

(Sphagnum) tress

(Ceratodon) tress

(T. Sphagnum) tress

Lab Assignment -12

- a) Given a dataframe name aid that stores the aid for an NGO for different states.

	Toys	Books	Uniform	Shoes
Andhra	7916	6189	616	8810
Odisha	8508	8208	508	6798
M.P.	7226	6149	611	964
U.P.	7617	6257	457	6457

Create a dataframe 'aid' and write a python code to display:

- i) Books and uniform only
- ii) Shoes only
- iii) Write a python code to display the aid for states Andhra and Odisha for books and Uniform only.

(3)

Output []

	Toys	Books	Uniform	Shoes
Andhra	7916	6189	610	8810
Odisha	8508	8208	508	6798
M.P.	7226	6149	611	9611
U.P.	7617	6157	457	6457

	Books	Uniform
Andhra	6189	610
Odisha	8208	508
M.P.	6149	611
U.P.	6157	457

Andhra	8810
Odisha	6798
M.P.	9611
U.P.	6457

	Books	Uniform
Andhra	6189	610
Odisha	8208	508

→ import pandas as pd

```
l = [ [7916, 6189, 610, 8810],  
      [8508, 8208, 508, 6798],  
      [7226, 6149, 611, 9611],  
      [7617, 6157, 451, 6437] ]
```

```
aid = pd.DataFrame(l, columns='Toys', 'Books', 'Uniform', 'Shoes')  
index=['Andhra', 'Odisha', 'MP', 'UP'])
```

aid

- ① print(aid[['Books', 'Uniform']])
- ② print(aid['Shoes'])
- ③ print(aid.loc[['Andhra', 'Odisha', 'Books': 'Uniform']])

bq as subseq begin

begin value

[E128, 010, P110, S1A5] - 1

[010, 802, 8058, 8078]

[HAF110, P110, 2555]

[E128, 010, P110, S1A5]

end value (1) morfolog.bq = bio
value, end, endval: p369

bio

([E128, 010, P110, S1A5] bio) twsg ①

(value, bio) twsg ②

([E128, 010, P110, S1A5] xl, bio) twsg ③

([E128, 010, P110, S1A5]

Lab assignment - 13

Q) Consider the following dataframe "saledf":

	Target	Sales
Zone A	56000	58000
Zone B	70000	68000
Zone C	75000	78000
Zone D	60000	61000

- i) Write a python code to create the dataframe saledf
- ii) Also write a code to add a column "orders" having values [6000, 6700, 6200, 6000] respectively for the zones A, B, C and D.
- iii) The program should also add a new row "Zone E". Add any dummy value.

output []

	Target	Sales	orders
Zone A	56000	58000	6000
Zone B	70000	68000	6700
Zone C	75000	78000	6200
Zone D	60000	61000	6000
Zone E	55000	50000	5000

→ import pandas as pd

① l = [[56000, 58000],
[70000, 68000],
[75000, 78000],
[60000, 61000]]

saledf = pd.DataFrame(l, columns=['Target', 'Sales'],
index=['Zone A', 'Zone B', 'Zone C', 'Zone D'])

② Sale df ['Orders'] = [6000, 6700, 6200, 6000]

③ saledf.loc['Zone E', :] = 5000

saledf

output []

row = qtr1

yr1 = 34500

yr2 = 44900

yr3 = 54500

Name: qtr1, dtype: int64

row = qtr2

yr1 = 56000

yr2 = 46100

yr3 = 51000

Name: qtr2, dtype: int64

row = qtr3

yr1 = 47000

yr2 = 57000

yr3 = 57000

Name: qtr3, dtype: int64

row = qtr4

yr1 = 49000

yr2 = 59000

yr3 = 58500

Name: qtr4, dtype: int64

Lab assignment - 14

Q) Use iterrows() to extract data from dataframe row wise

→ import pandas as pd

$l = [[34500, 44900, 54500],$
 $[56000, 46100, 51000],$
 $[47000, 57000, 57000],$
 $[49000, 59000, 58500]]$

index = ['qtr1', 'qtr2', 'qtr3', 'qtr4']
col = ['yr1', 'yr2', 'yr3']

df1 = pd.DataFrame(l, index=index, columns=col)

for (row, series) in df1.iterrows():
 print('rows = ', row)
 print(series)

(45)

output[]

$$\text{column} = T_{\gamma 1}$$

$$q_{\gamma 1} = 34500$$

$$q_{\gamma 2} = 56000$$

$$q_{\gamma 3} = 47000$$

$$q_{\gamma 4} = 49000$$

$$\text{column} = T_{\gamma 2}$$

$$q_{\gamma 1} = 44900$$

$$q_{\gamma 2} = 46100$$

$$q_{\gamma 3} = 57000$$

$$q_{\gamma 4} = 59000$$

$$\text{column} = T_{\gamma 3}$$

$$q_{\gamma 1} = 54500$$

$$q_{\gamma 2} = 51000$$

$$q_{\gamma 3} = 57000$$

$$q_{\gamma 4} = 58500$$

Lab assignment - 15

Q) Use iteritems() to extract data from dataframe column wise.

→ import pandas as pd

```
d = [[34500, 44900, 54500],  
     [56000, 46100, 51500],  
     [47000, 57000, 57000],  
     [49000, 59000, 58500]]
```

```
col = ['Tr1', 'Tr2', 'Tr3']
```

```
rows = ['qtr1', 'qtr2', 'qtr3', 'qtr4']
```

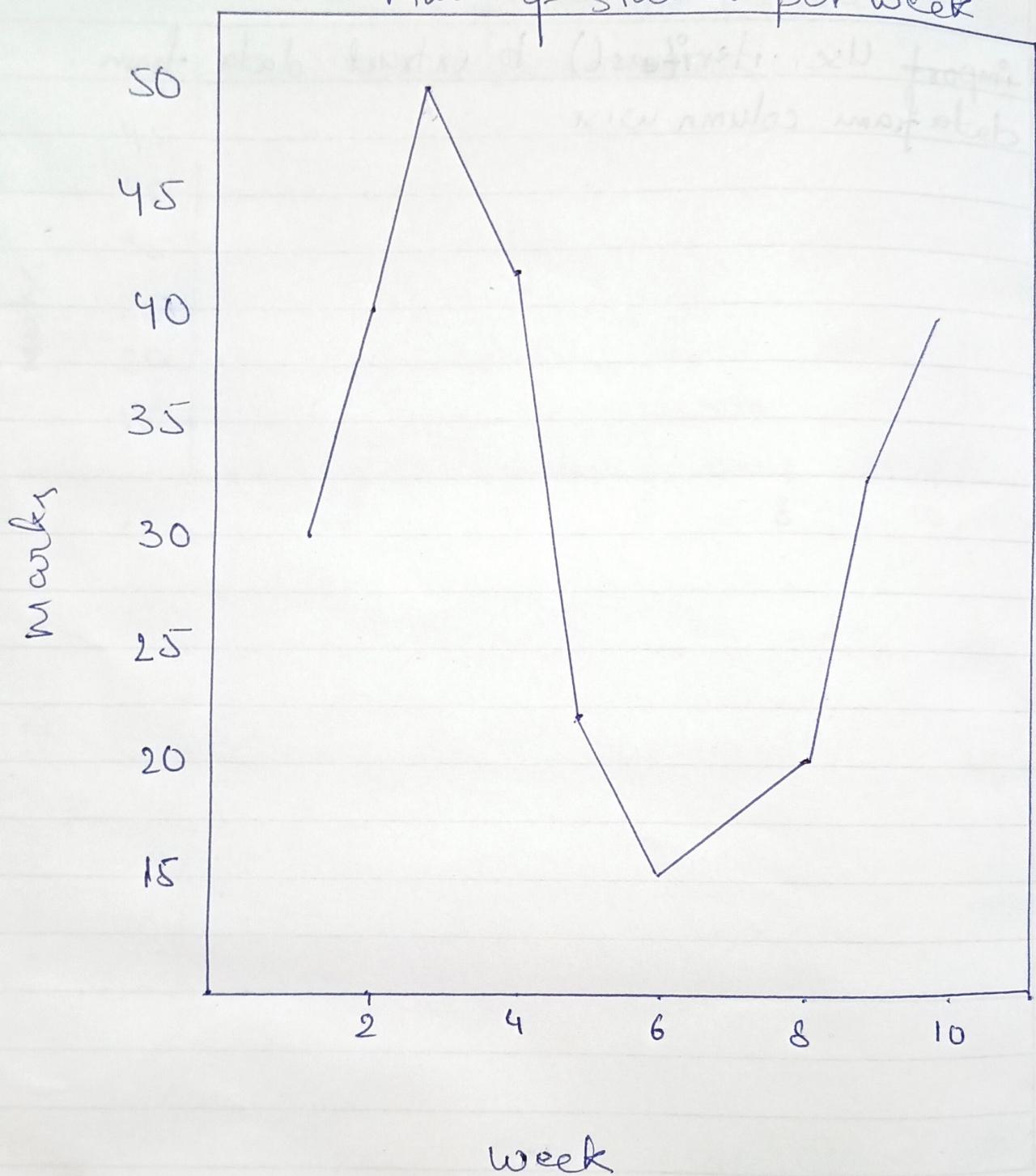
```
df1 = pd.DataFrame(d, index=rows, columns=col)
```

```
for (col, series) in df1.items():  
    print('column = ', col)  
    print(series)
```

out []

(67)

Marks of students per week



Lab Assignment -16

Q) Write a python code that store the marks of student in 10 unit tests.

→ Write a program to plot a student performance in these 10 unit tests.

→ import matplotlib.pyplot as plt

x = [1, 2, 3, 4, 5, 6, 7, 8, 9, 10]

y = [30, 40, 49, 42, 22, 15, 18, 20, 33, 39]

plt.xlabel('week')

plt.ylabel('marks')

plt.title('Marks of students per week')

plt.plot(x, y)

plt.show()

(43)

out[7]

	<u>week</u>	<u>marks</u>
0	1	30
1	2	40
2	3	49
3	4	42
4	5	22
5	6	15
6	7	18
7	8	20
8	9	33
9	10	39

('down') today + HQ

('down') today + HQ

('down') today + HQ

(y, w) today + HQ

(Onde - HQ)

import pandas as pd

x3 = pd.Series([1, 2, 3, 4, 5, 6, 7, 8, 9, 10])

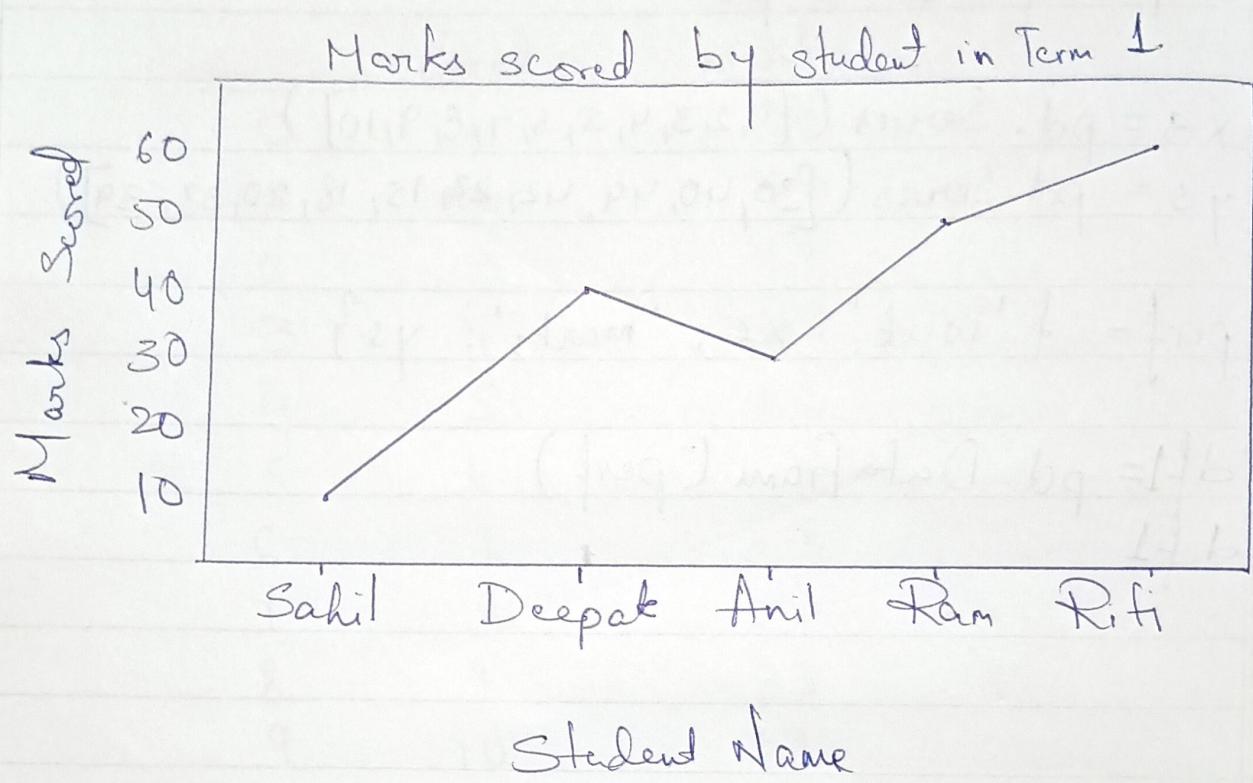
y3 = pd.Series([30, 40, 49, 42, 22, 15, 18, 20, 33, 39])

perf = {'week': x3, 'marks': y3}

df1 = pd.DataFrame(perf)

df1

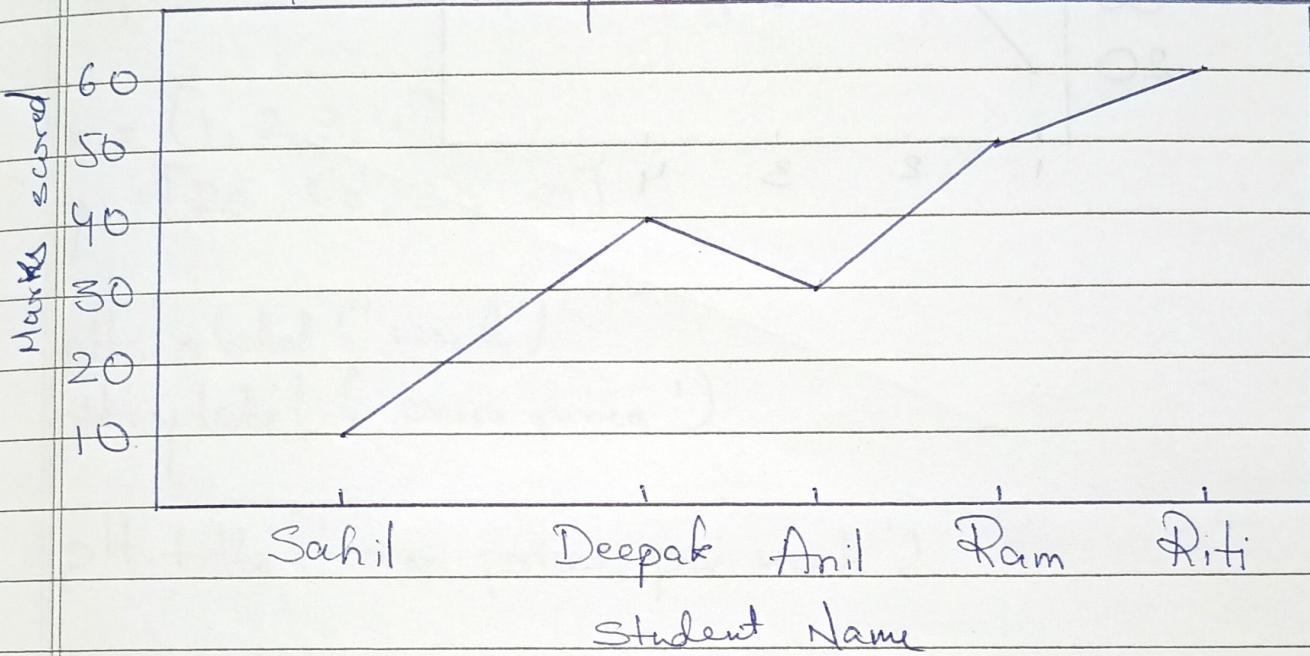
out[]



Lab Assignment - 17

- Q) Write a python code to plot it. Also add the Title, label for x and y axis.

Marks scored by student in Term 1



→ import matplotlib.pyplot as plt

marks = [10, 40, 30, 50, 60]

name = ['Sahil', 'Deepak', 'Anil', 'Ram', 'Riti']

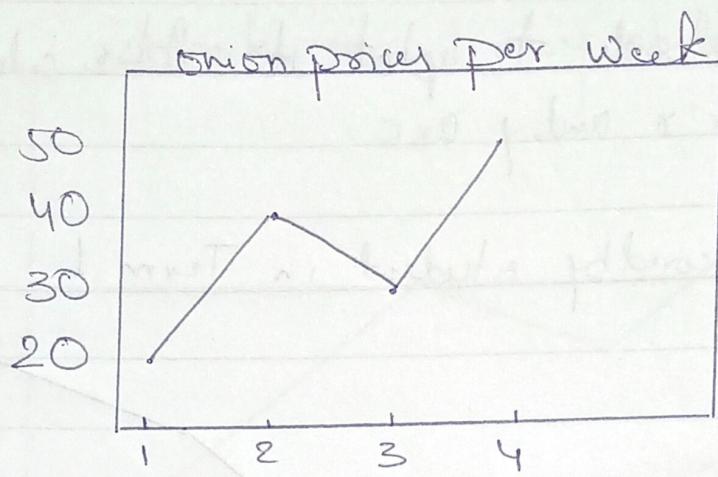
plt.xlabel('Student Name')

plt.ylabel('Marks scored')

plt.title('Marks scored by student in Term 1')

plt.plot(name, marks)

plt.show()

Output []

Hot and 'L.A. dog' have
more taste

Hg no hq, q.d. Hg from ←

[O2, O2, O2, O2, O1] = Hg
[Hg, 'hot', 'hot', 'dog', 'hot'] = max

('cash taste') Hg x Hg
('base taste') Hg x Hg

('I am a tasteless piece of meat') Hg x Hg

(w) hq Hg

(I am Hg)

Lab assignment - 18

a) Write a python code to plot a line chart on changing weekly onion price for 4 weeks with labels.

→ import `+`, `2`, `matplotlib.pyplot as plt`

$$x = [1, 2, 3, 4]$$

$$y = [20, 40, 30, 50]$$

`plt.xlabel('week')`

`plt.ylabel('onion price')`

`plt.title('onion prices per week')`

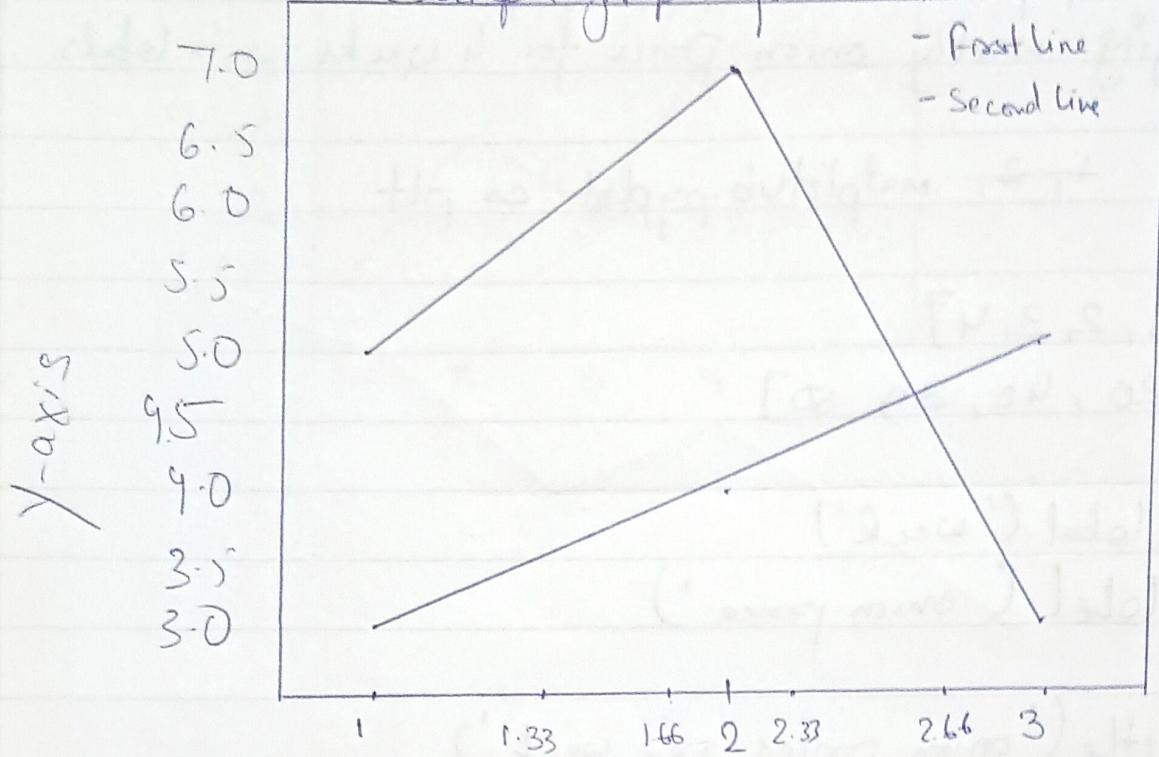
`plt.plot()`

`plt.show()`

(S)

out[]

Sample graph for multiple lines



X - axis

Lab assignment - 19

- Q) Write a python code to draw 2 lines along with proper titles, legends & and label to a line plot with multiple lines

→ import matplotlib.pyplot as plt

$$x_1 = [1, 2, 3]$$
$$y_1 = [5, 7, 3]$$

plt.xlabel('x-axis')

plt.ylabel('y-axis')

plt.title('sample graph for multiple lines')

plt.plot(x1, y1, label='First Line')

$$x_2 = [1, 2, 3]$$

$$y_2 = [3, 4, 5]$$

plt.plot(x2, y2, label='Second Line')

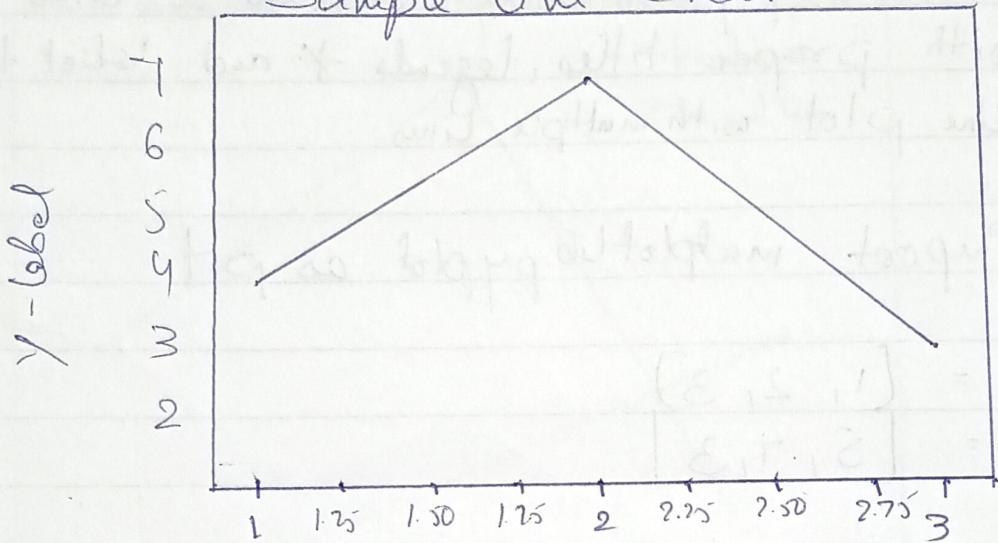
plt.legend()

plt.show()

(5)

out[]

Sample Line Chart



X-label

$$\begin{bmatrix} E, S, V \end{bmatrix} = S_x$$

$$\begin{bmatrix} L, M, S \end{bmatrix} = S_y$$

(out base = 1de), S_x, S_y) folg. Hg(Obige Hg
Droht)

Lab assignment - 20

Q) Write a python code to create a line graph from list

→ import matplotlib.pyplot as plt

x = [1, 2, 3]

y = [4, 7, 3]

plt.xlabel('x-axis')

plt.ylabel('y-axis')

plt.plot(x, y)

⑤

out[]

	a	b	c
x	1	2	3
y	4	5	6
z	7	8	9

$$[E, s, 1] = x$$

$$[E, r, p] = y$$

($x \otimes -p$) bds $x \otimes Hg$
 $(x \otimes -p)$ bds $y \otimes Hg$

($y \otimes -Hg$, Hg)

Lab assignment 2!

Q) Create a dataframe from 2D nd array.

→ import numpy as np
import pandas as pd

arr1 = np.array([[1, 2, 3],
[4, 5, 6],
[7, 8, 9]])

df4 = pd.DataFrame(arr1, columns=['a', 'b', 'c'],
index=['x', 'y', 'z'])

df4

(6)

out[]

	X	y	Z
a	10	40	70
b	20	50	80
c	30	60	90
d	100	110	120

Lab assignment - 22

Q) Create a Dataframe from a 2D dictionary having values as dictionary object.

→ import pandas as pd

$x1 = \{ 'a': 40, 'b': 40, 'c': 70, 'd': 100 \}$

$y1 = \{ 'a': 20, 'b': 50, 'c': 80, 'd': 110 \}$

$z1 = \{ 'a': 30, 'b': 60, 'c': 90, 'd': 120 \}$

$d = \{ 'x': x1, 'y': y1, 'z': z1 \}$

$df2 = pd.DataFrame(d)$

$df2$

(63)

out[]

	Name	Gng	Maths	History	Comp	PolSci
0	a	40	30	50	92	75
1	b	60	50	60	98	60
2	c	70	75	98	90	50
3	d	80	45	50	85	90

$$(s \wedge s' \wedge r \wedge r') \vee (x \wedge x') = b$$

$$(b) \text{ max. val. } I.bq = 59b$$

59b

Lab assignment - 23

a) Create a `dataframe` object that contains name of students & their marks of 5 subjects. Display the `dataframe` object in tabular form.

→ import pandas as pd

```
df = {'Name': ['a', 'b', 'c', 'd'],
      'Eng': [40, 60, 70, 80],
      'Maths': [30, 50, 75, 45],
      'History': [50, 60, 98, 50],
      'Comp': [92, 98, 90, 85],
      'Pol Sci': [75, 60, 50, 90]}
```

```
df1 = pd.DataFrame(df)
```

out[]

0	7.5
1	6.5
2	NaN
3	6.2

Lab Assignment - 24

- Q) Write a python code to create a Series with missing values

→ import pandas as pd

```
SL = pd.Series([7.5, 6.5, None, 6.2])  
print(SL)
```

⑥

out[]

0
1
2
3

3
5
3
5

does nothing to field (0)
causes green field
hq is always found at

(1.5, 1.5, 2.2, 2.1) and hq = 12
(1.5) hq

Lab assignment-25

Q) Write a python code to create a series object using nd array created by tiling a list [3, 5] twice.

→ import numpy as np
import pandas as pd

s1 = pd.Series(np.tile([3, 5], 2))
print(s1)

Brijesh