V.S.B.ENGINEERING COLLEGE, KARUR

Department of Electronics and Communication Engineering

IBM NALAIYA THIRAN

TITLE : AI based discourse for banking industry

DOMAIN NAME : Artificial Intelligence

LEADER NAME : Indhu priya N

TEAM MEMBER NAME : Harini S

Janani S

Jeevitha K

MENTOR NAME : Janani S

1.Split this string s = ”Hi there Sam!”

a=s.split() print(a)

2.Use.format() to print the following string

Output should be: The diameter of Earth is 12742 kilometers. planet=”Earth” diameter=12742

“The diameter of {planet} is {diameter} kilometers.”.format(planet=”Earth”,diameter=12742)

Numpy import numpy as np .

4.1.Create an array of 10 zeros? 4.2. Create an array of 10 fives?

4.1. import numpy as np

arr=np.zeros(10) print(arr)

4.2. import numpy as np arr=np.ones(10)*5 print(arr)

5. Create an array of all the even integers from 20 to 35

import numpy as np

arr=np.arrange(20,35,2)

print("array of all the even integers from 20 to 35")

print(arr)

6. Create a 3x3 matrix with values ranging from 0 to 8

import numpy as np

n=np.arrange(0,9).reshape(3,3)

print(n)

7. Concatenate a and b a=np.array([1,2,3]), b=np.array([4,5,6])

import numpy as np

a=np.array([1,2,3])

print(a)

b=np.array([4,5,6])

print(b)

print(np.concatenate((a,b)))

PANDAS

8. Create a dataframe with 3 rows and 2 columns

```
import pandas as pd

dt = [[‘mom’,40],[‘dad’,45],[‘child’,13]]

 dd= pd.DataFrame(dt, columns=[‘Name’,’Age’]

print(dd)
```

9. Generate the series of dates from 1st Jan,2023 to 10th Feb,2023

```
import datetime

 import pandas as pd

date=datetime.datetime.strptime(“01-01-2023”,”%d-%m-%Y”)

 periods= datetime.datetime.strptime(“10-02-2023”,”%d-%m-%Y”)
date_gen=pd.date_range(date,periods)

print(date_gen.strftime(”%d-%m-%Y”))
```

10. Create 2D list to DataFrame

```
 lists =[[1,’aaa’,22], [2,’bbb’,25], [3,’ccc’,24]]

 import pandas as pd

lists==[[1,’aaa’,22], [2,’bbb’,25], [3,’ccc’,24]]
df=pd.DataFrame(lists,columns=[‘ID’,’Name’,’Age’])

print(df)
```