IBM ASSIGNMENT 1

1.Split this string:

```
S = “Hi there sam!”
Words = s.split(‘,’)
Print(words)
```

2.Use. format() to print the following

```
My string = “ The diameter of the {} is {} kilometer”
Print(my_string.format(“earth”,”12742”))
```

3.In this nest dictionary grab the word “hello”

```
d={‘k1’:[1,2,3,{‘tricky’:[‘oh’,’man’,’inception’,{‘target’:[1,2,3.’h
elloprint(d[‘hello’])
```

4.1Create an array 10 zeros?

```
arr1 = []
for I in range(0,10):
    arr1.append(0)
print(arr1)
```

4.2 create an of 10 fives?

```
Arr1 = []
For I in range(0,10):
    Arr1.append(5)
Print(arr1)
```

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

```
Start = 20
End =  35
```

For num in range(start, end + 1)

If num % 2 == 0:

Print(num, end = " ")

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

Import numpy as np

X = np.arrange(0,8).reshape(3,3)

Print(x)

7. Concatenate a and b

Import numpy as np

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

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

num = np.concatenate((a,b), axis = 0)

print (num)

8. Create the dataframe with 3 rows and 2 columns

Import pandas as pd

Data = [['tom ',10], ['nick','20'], ['carry','30']]

df = pd.Dataframe(data, columns=['name' ,'age'])

df

9. Generate the series of date from 1st jan,2023 to 10th feb 2023?

Import datetime

Import pandas as pd

Test-date = datetime.datetime.striptime(“01-01-2023”, “10-02-2023

Date- generated = pd.date-range(test-date, periods=k)

Print(date-generated.strftime(“%d-%m-5y))

10. Create 2D list to dataframe

Import pandas as pd

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

Df = pd.Datagframe(1st, columans =[‘tag’, ‘numbers’]

Print(df)