## **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 = \text{np.arrange}(0,8).\text{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(1<sup>st</sup>, columnns = ['tag', 'numbers']

Print(df)