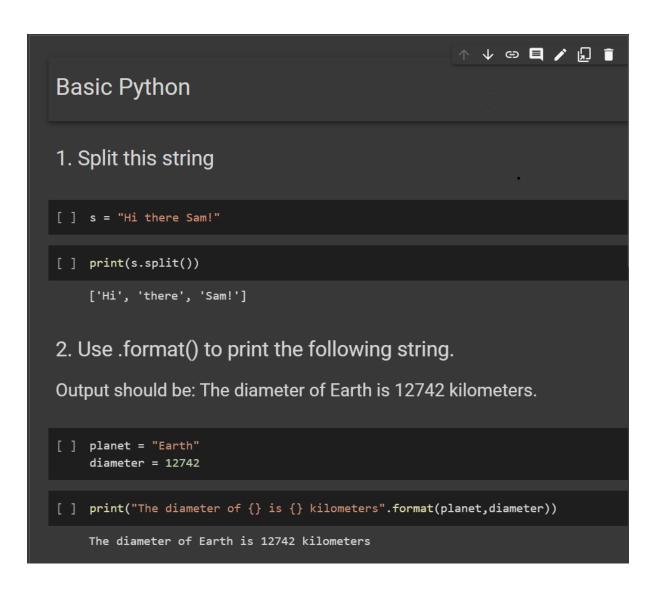
## **ASSIGNMENT-01**

## **BASIC PYTHON**

Assignment Date	12-09-2022	
Student Name	NITHYASREE H	
Student Roll Number	311519106065	
Maximum Marks	2	



```
3. In this nest dictionary grab the word "hello"
[ ] d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]
[ ] print(d['k1'][3]["tricky"][3]['target'][3])
    hello
Numpy
[ ] import numpy as np
4.1 Create an array of 10 zeros?
4.2 Create an array of 10 fives?
[ ] array=np.zeros(10)
    print(array)
    [0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
[ ] array=np.ones(10)*5
    print(array)
    [5. 5. 5. 5. 5. 5. 5. 5. 5.]
5. Create an array of all the even integers from 20 to 35
[ ] array=np.arange(20,35,2)
    print(array)
    [20 22 24 26 28 30 32 34]
```

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

7. Concatenate a and b

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

```
[ ] a = np.array([1, 2, 3])
  b = np.array([4, 5, 6])
  np.concatenate((a,b))

  array([1, 2, 3, 4, 5, 6])
```

## **Pandas**

8. Create a dataframe with 3 rows and 2 columns

```
[ ] import pandas as pd
```

```
[ ] data = [['tom', 10], ['nick', 15], ['juli', 14]]

df = pd.DataFrame(data, columns = ['Name', 'Age'])

df
```

	Name	Age
0	tom	10
1	nick	15
2	juli	14

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

```
[ ] per1 = pd.date_range(start ='1-1-2023',end ='02-10-2023')
     for val in per1:
      print(val)
    2023-01-01 00:00:00
    2023-01-02 00:00:00
    2023-01-03 00:00:00
    2023-01-04 00:00:00
    2023-01-05 00:00:00
    2023-01-06 00:00:00
    2023-01-07 00:00:00
    2023-01-08 00:00:00
     2023-01-09 00:00:00
    2023-01-10 00:00:00
    2023-01-11 00:00:00
    2023-01-12 00:00:00
    2023-01-13 00:00:00
    2023-01-14 00:00:00
    2023-01-15 00:00:00
    2023-01-16 00:00:00
    2023-01-17 00:00:00
    2023-01-18 00:00:00
    2023-01-19 00:00:00
    2023-01-20 00:00:00
    2023-01-21 00:00:00
    2023-01-22 00:00:00
    2023-01-23 00:00:00
    2023-01-24 00:00:00
    2023-01-25 00:00:00
    2023-01-26 00:00:00
    2023-01-27 00:00:00
     2023-01-28 00:00:00
     2023-01-29 00:00:00
    2023-01-30 00:00:00
    2023-01-31 00:00:00
    2023-02-01 00:00:00
    2023-02-02 00:00:00
    2023-02-03 00:00:00
    2023-02-04 00:00:00
    2023-02-05 00:00:00
    2023-02-06 00:00:00
    2023-02-07 00:00:00
    2023-02-08 00:00:00
    2023-02-09 00:00:00
    2023-02-10 00:00:00
```

## 10. Create 2D list to DataFrame

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

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

[ ] df = pd.DataFrame(lists, columns =['number','Tag', 'number'])
 print(df )

```
        number
        Tag
        number

        0
        1
        aaa
        22

        1
        2
        bbb
        25

        2
        3
        ccc
        24
```