## **ASSIGNMENT 1**

Assignment Date	23/09/2022
Student Name	ANUVITHA G
Student Roll Number	61771921002
Maximum Marks	2 Marks

## **Basic Python**

- 1. Split the String
- 2. Use .format() to print the following string.

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

- 3. In this nest dictionary grab the word "hello"
- 4. NUMPY
- 4.1 Create an array of 10 Zeros
- 4.2 Create an array of 10 fives
- 5. Create an array of all the even integers from 20 to 35
- 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])

## **PANDAS**

- 8. Create a dataframe with 3 rows and 2 columns
- 9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023
- 10. Create 2D list to DataFrame

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

1.

```
1. Split this string
[ ] s = "Hi there Sam!"

[ ] print(s.split())
    ['Hi', 'there', 'Sam!']
```

2.

**3.** 

```
3. In this nest dictionary grab the word "hello"

[ ] d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}]

object of the word "hello"

d['k1'][3]['tricky'][3]['target'][3]

property the look in the word "hello"

+ Code | Code
```

4.

```
Numpy
[ ] import numpy as np

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

[ ] a=np.zeros(10)
    print(a)
       [0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]

[ ] a=np.ones(10)*5
    print(a)
       [5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

5.

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

a=np.arange(20,36,2)
print(a)

[20 22 24 26 28 30 32 34]

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

```
[ ] a=np.arange(0,9).reshape(3,3)
print(a)

[[0 1 2]
    [3 4 5]
    [6 7 8]]
```

7.

```
7. Concatinate 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])
c=np.concatenate((a,b),axis=0)
print(c)

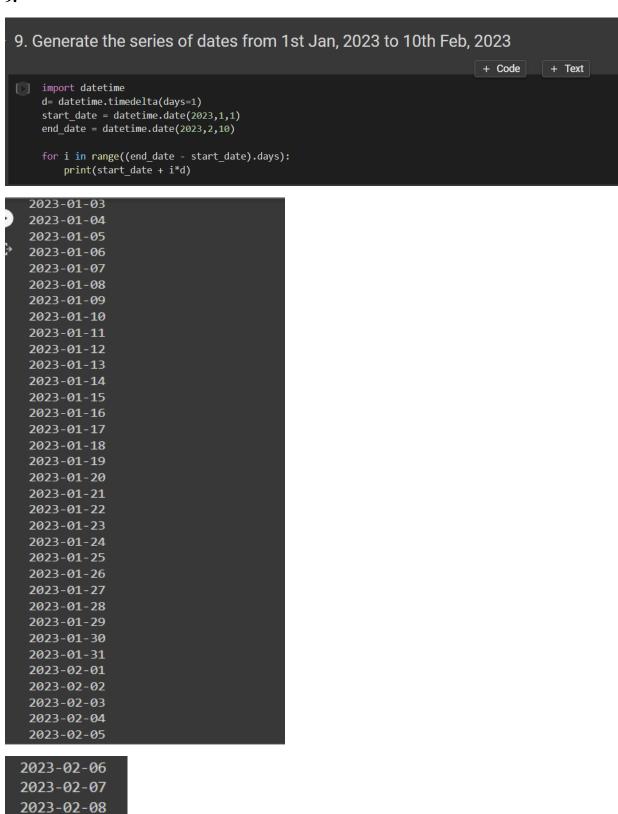
[1 2 3 4 5 6]
```

8.

Pandas

8. Create a dataframe with 3 rows and 2 columns

2023-02-09



##