# Assignment -1

# **Python Programming**

Assignment Date	9 September 2022
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Maximum Marks	2 Marks

# Basic

# Python

Question-1: Split

this string:

```
s = "Hi there Sam!"
```

**Solution:** 

# print(s.split())

# ▼ 1. Split this string

```
[2] s = "Hi there Sam!"

print(s.split())

['Hi', 'there', 'Sam!']
```

# Question-2:

Use .format() to print the following string.

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

#### **Solution:**

```
planet = "Earth" diameter = 12742 print ("the diameter of {} is {} kilometers.".format(planet,diameter))
```

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

```
[4] planet = "Earth"
    diameter = 12742
print ("the diameter of {} is {} kilometers.".format(planet,diameter))
the diameter of Earth is 12742 kilometers.
```

#### Question-3:

In this nest dictionary grab the word "hello"

#### **Solution:**

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

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

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

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

'hello'
```

## Numpy

import numpy as np

#### Question-4:

# 4.1 Create an array of 10 zeros?

#### **Solution:**

```
array1=np.zeros(10) print(array1)
```

```
array1=np.zeros(10)
print(array1)

[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
```

### 4.2 Create an array of 10 fives?

#### **Solution:**

```
array2=np.ones(10)*5 print(array2)
```

```
array2=np.ones(10)*5
print(array2)
[5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

#### Question-5:

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

#### **Solution:**

```
array3=np.arange(20,35,2) print(array3)
```

```
array3=np.arange(20,35,2)
print(array3)

[20 22 24 26 28 30 32 34]
```

#### Question-6:

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

#### **Solution:**

```
matrix=np.arange(0,9).reshape(3,3) print(matrix)

matrix=np.arange(0,9).reshape(3,3)
print(matrix)

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

#### Question-7:

## **Pandas**

```
import pandas as pd
```

#### Question-8:

#### Create a dataframe with 3 rows and 2 columns Solution:

	name	number
0	XXX	1
1	ууу	2
2	ZZZ	3

#### Question-9:

#### Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023 Solution:

#### Question-10:

```
Create 2D list to DataFrame lists = [[1, 'aaa',
```

```
22], [2, 'bbb', 25], [3, 'ccc', 24]] Solution:

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

df=pd.DataFrame(lists,columns=['sno', 'name', 'age']) print (df)
```