#### **ASSIGNMENT - 1**

Student Name	SRINATH S
Student Roll Number	73771921195
Maximum Marks	2 Marks

## **Basic Python**

## 1. Split this string

```
In[]:
s = "Hi there Sam!"

In[]:
x=s.split(" ") print(x)
['Hi', 'there', 'Sam!']
```

#### 2. Use .format() to print the following string.

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

```
In []:
planet = "Earth" diameter = 12742

In []:
planet = "Earth" diameter = 12742
print( 'The diameter of {} is {} kilometers.' .format(planet, diameter)); The
diameter of Earth is 12742 kilometers.
```

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

```
In []:
d =
{'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}
In []:
lst = [1,2,[3,4],[5,[100,200,['hello']],23,11],1,7] a=lst[3][1][2]; print(a)
['hello']
```

# Numpy

In [ ]:

import numpy as np

#### 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

```
import numpy as np array=np.arange(20,36,2) print("Array of all the even integers from 20 to 35") print(array)
Array of all the even integers from 20 to 35
[20 22 24 26 28 30 32 34]
```

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

```
In []:
x = np.arange(0, 9).reshape(3,3) print(x)

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

```
import pandas as pd

In [1]:

import pandas as pd df = pd.DataFrame() df['name'] =
['sneha', 'safana', 'priya'] df['reg'] = [7,13,23] print(df) name reg 0
sneha 7
1 safana 13
2 priya 23
```

# 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]]

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

ln [7]:

import pandas as pd lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]] df

= pd.DataFrame(lists, columns = ['s.no', 'name', 'mark']) print(df)

s.no name mark 0

1 aaa 22

1 2 bbb 25
2 3 ccc 24
```