#### Assignment -1

# **Python Programming**

| Assignment Date     | 16 September 2022 |  |
|---------------------|-------------------|--|
| Student Name        | Sakthi Priya .S   |  |
| Student Roll Number | 713119104016      |  |
| Maximum Marks       | 2 Marks           |  |

# **BASIC PYTHON**

# 1. Split this string

```
#Split this string
s = "Hi there Sam!"
s.split()
```

## **OUTPUT**



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

# **Output should be:**

The diameter of earth is 12742 kilometres.

```
planet = "Earth"
diameter = 12742
planet = "Earth"
diameter = 12742
print('The diameter of {} is {} kilometres.'. Format(planet, diameter));
```



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

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

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

#### **OUTPUT**



# 4.Numpy

# 4.1 Create an array of 10 zeros?

## 4.2 Create an array of 10 fives?

- 4.1 array=np.zeros(10)
  Array
- 4.2 array=np.ones(10)\*5 Array

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

```
array=np.arange(20,35,2)
array
```

#### **OUTPUT**



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

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

#### **OUTPUT**

```
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RAM Low Marking A Disk Low Marking A
```

#### 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])
ab=np.concatenate((a,b),axis=0)
ab
```

```
      Comment
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```

# **Pandas**

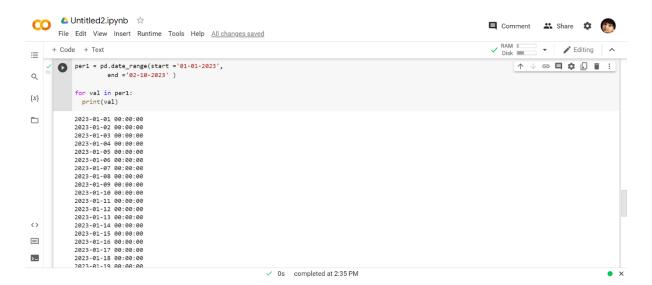
## 8. Create a dataframe with 3 rows and 2 columns

```
import pandas as pd
data = [['vb', 10], ['hari', 15], ['prasath', 14]]
df = pd.DataFrame(data, columns=['Name', 'Age'])
df
```

#### **OUTPUT**



## 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]]

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

# Create the pandas DataFrame
df = pd.DataFrame(lists, columns = ['s.no', 'name', 'Age'])

# print dataframe.
print(df)
```