### **Assignment-1**

#### PythonProgramming

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MaximumMarks	2	

# BasicPython

## 1.Splitthisstring

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

## 2.Use.format()toprintthefollowingstring.

Outputshouldbe: The diameter of Earth is 12742 kilometers.

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

In []: planet =
    "Earth"diameter=
    12742
    print('Thediameterof{}is{}kilometers.'.format(planet,diameter));
    ThediameterofEarthis12742kilometers.
```

## 3.Inthisnestdictionary grabthe word "hello"

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

## Numpy

```
In [ ]: importnumpyasnp
```

#### 4.1Createanarrayof10zeros?

#### 4.2Createanarrayof10fives?

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

## 6.Createa3x3matrixwithvaluesrangingfrom0to8

#### 7. Concatinate a andb

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

```
In [ ]: a=np.array([1,2,3])
b=np.array([4,5,6])print(np.
concatenate((a,b)))
[12345 6]
```

#### Pandas

#### 8. Createadata framewith 3 rows and 2 columns

## 9. Generate the series of dates from 1 st Jan, 2023 to

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