Assignment Date	19 September 2022
Student Name	A.Aruna
Student Roll Number	910619104007
Maximum Marks	2 Marks

# **Basic Python**

```
1. Split this string
```

```
s = "Hi there Sam!"

In []:
    print(s.split())
    ['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 [ ]: 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 [ ]: print(d['k1'][3]["tricky"][3]['target'][3])
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

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

## 7. Concatinate 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

In [ ]: df1=pd.DataFrame(lists,columns=['S.No','Name','Id'])

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

 Out[]:
 S.No
 Name
 Id

 0
 1
 aaa
 22

 1
 2
 bbb
 25

 2
 3
 ccc
 24

In [ ]: