# Assignment -1 Python Programming

Assignment Date	19 September 2022
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Student Roll Number	720819106043
Maximum Marks	2 Marks

## **Basic Python**

#### 1. Split this string

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

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

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

```
▼ 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"

#### Numpy

import numpy as np

- 4.1 Create an array of 10 zeros?
- 4.2 Create an array of 10 ves?

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

```
np.arange(20,35,2) array([20, 22, 24, 26, 28, 30, 32, 34])
```

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])

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

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#### **Pandas**

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

name age		
0	Jerim	21
1	Basha	22
2	Tharik	22

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

```
pd.Series(pd.date_range(start ='1-1-2023',end ='02-10-2023'))
     0
          2023-01-01
     1
          2023-01-02
     2
          2023-01-03
     3
          2023-01-04
          2023-01-05
     5
          2023-01-06
          2023-01-07
          2023-01-08
     8
          2023-01-09
     9
          2023-01-10
     10
          2023-01-11
     11
          2023-01-12
     12
          2023-01-13
     13
          2023-01-14
     14
          2023-01-15
     15
          2023-01-16
     16
          2023-01-17
```

```
17
        2023-01-18
   18
        2023-01-19
   19
        2023-01-20
   20
        2023-01-21
   21
         2023-01-22
Saved successfully!22
                   2023-01-23
   23
        2023-01-24
   24
        2023-01-25
   25
        2023-01-26
   26
        2023-01-27
   27
        2023-01-28
   28
        2023-01-29
   29
        2023-01-30
   30
        2023-01-31
   31
        2023-02-01
   32
        2023-02-02
   33
        2023-02-03
   34
        2023-02-04
        2023-02-05
   35
   36
        2023-02-06
   37
        2023-02-07
   38
        2023-02-08
                         2023-02-10 dtype: datetime64[ns]
   39
        2023-02-09 40
```

#### 10. Create 2D list to DataFrame

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

pd.DataFrame(lists)

0 12



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