## **Assignment 1 - Basic Python**

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### 1. Split this string

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

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

```
In [3]:    planet = "Earth"
    diameter = 12742

In [4]:    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

```
In [7]: 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. 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

# 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]]
```

22

25

24

aaa

bbb

CCC

1

3

2

```
In [16]: lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
In [17]: pd.DataFrame(lists,columns=["sno","name","age"])
Out[17]: sno name age
```