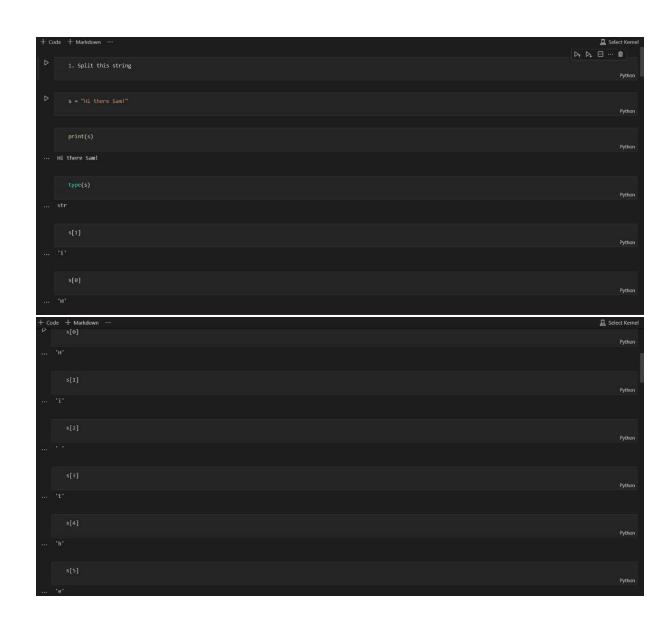
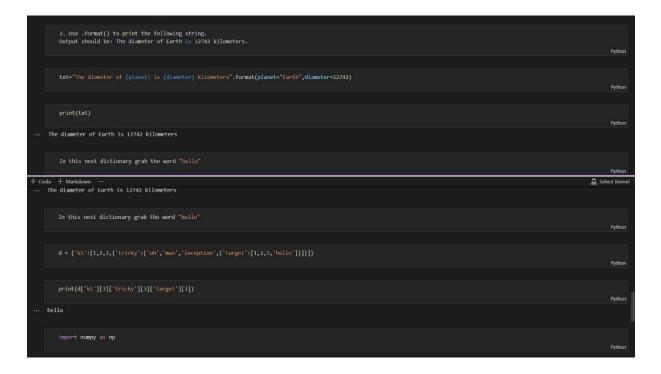
ASSIGNMENT – 1

1. Split this string





2. Use .format() to print the following string.
Output should be: The diameter of Earth is 12742 kilometers.



4.1 Create an array of 10 zeros?

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

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

Python

array=np.arange(20,35,2)
print("Array of all the even integers from 20 to 35")
print(array)

Array of all the even integers from 20 to 35

[20 22 24 26 28 30 32 34]
```

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

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

x = np.arange(0, 9).reshape(3,3)
print(x)

Python

[[0 1 2]
[3 4 5]
[6 7 8]]
```

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

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

Python

import numpy as np
a = np.array([1, 2, 3])
b = np.array([1, 5, 6])
np.concatenate((a, b), axis-0)
```

8. Create a dataframe with 3 rows and 2 columns

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

import pandas as pd
import numpy as np
A = np.random.randint(10, size=(3,2))
df = pd.DutaFrame(A)

Python

df

Python

0 1
0 9 8
1 3 1
2 0 6
```

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]]
```

```
10. Create 20 list to DataFrame
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

Python

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

df = pd.DataFrame(lists, columns=['column 1', 'column 2', 'column 3'])

print(df)

... column 1 column 2 column 3
```

```
# Code + Makidown ---

2023-07-31 00:00:00

2023-09-30 00:00:00

10. Create 20 list to DataFrame
    lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]

| lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
| df = pd.DataFrame(lists, columns=['column 1', 'column 2', 'column 3'])
| print(df)

| column 1 column 2 column 3 |
| column 1 column 2 column 3 |
| column 2 column 3 |
| column 3 |
| column 4 |
| column 5 |
| column 5 |
| column 6 |
| column 7 |
| column 7 |
| column 8 |
| column 8 |
| column 8 |
| column 9 |
| column 9 |
| column 1 |
| column 9 |
| column 1 |
| column 1 |
| column 1 |
| column 2 |
| column 3 |
| column 4 |
| column 5 |
| column 8 |
| column 8 |
| column 8 |
| column 9 |
| column 9 |
| column 1 |
| column 9 |
| column 1 |
| column 1 |
| column 8 |
| column 8 |
| column 8 |
| column 9 |
| column 1 |
| colum
```