Basic python

1. Split this string

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

Output should be: The diameter of earth is 12742 kilometers

```
In [7]: planet = "Earth"
    diameter = 12742

In [8]: 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"

```
In [ ]: d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]
In [6]: d = {'k1':[1,2,3,{'tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}]
d['k1'][3]['tricky'][3]['target'][3]
Out[6]: 'hello'
```

Numpy

```
In [ ]: import numpy as np
```

4.1 Creat an array of 10 zeros?

```
In [9]: import numpy as np
array=np.zeros(10)
print("An array of two zeros:")
print(array)

An array of two zeros:
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
```

4.2 Create an array of 10 fives?

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

```
In [17]: np.arange(20,35,2)
Out[17]: array([20, 22, 24, 26, 28, 30, 32, 34])
```

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])

```
In [19]: a = np.array([1,2,3])
b = np.array([4,5,6])
np.concatenate((a,b),axis=0)

Out[19]: array([1, 2, 3, 4, 5, 6])
```

Pandas

8. Create a dataframe with 3 rows and 2 columns

import pandas as pd

9.Generate the series of datas from 1st jan,2023 to 10th feb 2023

10.Create 2D list to DataFrame

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

In []: