Assignment -1 Python Programming

Assignment Date	24 September 2022
Student Name	RENNIE SHARON ROSE P
Student Roll Number	2019PITIT147
Maximum Marks	2 Marks

1. Split this string

```
1 s = "Hi there Sam!"
2 print(s.split())

v '' ''
['Hi', 'there', 'Sam!']
```

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

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

3. In this nest dictionary grab the word "hello"

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

- 4. Numpy
 - a. Create an array of 10 zeros?

```
1 import numpy as np
2 print(np.zeros(10))

• 2 9

[0. 0. 0. 0. 0. 0. 0. 0. 0.]
```

b. 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])

8. Pandas

a. Create a dataframe with 3 rows and 2 columns

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

```
import pandas as pd
    print(pd.date_range
                        (start='01/01/2023', end='02/10/2023'))
DatetimeIndex(['2023-01-01', '2023-01-02', '2023-01-03',
                                                          '2023-01-04'
               '2023-01-05',
                                           '2023-01-07',
                             '2023-01-06',
                                                          '2023-01-08'
               '2023-01-09', '2023-01-10', '2023-01-11',
                                                          '2023-01-12'
               '2023-01-13', '2023-01-14', '2023-01-15',
                                                          '2023-01-16'
               '2023-01-17', '2023-01-18', '2023-01-19',
                                                          2023-01-20
               '2023-01-21',
                             '2023-01-22',
                                           '2023-01-23',
                                                          2023-01-24
                             '2023-01-26', '2023-01-27',
               '2023-01-25',
                                                          '2023-01-28
               '2023-01-29',
                             '2023-01-30', '2023-01-31',
                                                          '2023-02-01'
               2023-02-02',
                            '2023-02-03', '2023-02-04',
                                                          '2023-02-05'
               '2023-02-06',
                             '2023-02-07', '2023-02-08', '2023-02-09',
               '2023-02-10'],
              dtype='datetime64[ns]', freq='D')
```

10.Create 2D list to DataFrame

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