Assignment -1Python Programming

Assignment Date	24 September 2022
Student Name	Iswarya M
Student Roll Number	195002302
Maximum Marks	2 Marks

1. Split this string

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

Output should be: The diameter of Earth is 12742 kilo meters.

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

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

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

input
hello
```

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

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

```
import pandas as pd
d = [["Idly", 10], ["Dosa", 12], ["Poori", 20]]
print(pd.DataFrame(d, columns=["Items", "Price"]))

tems Price
Items Price
Idly 10
Dosa 12
Poori 20
```

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

```
import pandas as pd
                            (start='01/01/2023', end='02/10/2023'))
  2 print(pd.date range
 V 📝 🔏
DatetimeIndex(['2023-01-01', '2023-01-02', '2023-01-03',
                                                                    '2023-01-04'
                  '2023-01-05', '2023-01-06', '2023-01-07', '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
                  '2023-01-25', '2023-01-26', '2023-01-27',
                                                                     12023-01-28
                  '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]]