ASSIGNMENT - 1

Assignment Date	14 September 2022
Student Name	Diviya N
Student Roll Number	2019504515
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 kilometers.

```
Solution:
```

```
planet = "Earth"
diameter = 12742
print("The diameter of {} is {} kilometers".format(planet,diameter))
```

Output: 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']}]
}]}
```

Solution: d['k1'][3]['tricky'][3]['target'][3]

4) Create an array of 10 zeros? and Create an array of 10 fives?

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

```
Solution: np.arange(20,35,2)
Output: array([20, 22, 24, 26, 28, 30, 32, 34])
6) Create a 3x3 matrix with values ranging from 0 to 8
Solution: np.arange(0,9).reshape(3,3)
Output: array([[0, 1, 2],
        [3, 4, 5],
        [6, 7, 8]])
7) Concatenate a and b
a = np.array([1, 2, 3]), b = np.array([4, 5, 6])
Solution: a=np.array([1,2,3])
b=np.array([4,5,6])
np.concatenate((a,b),axis=0)
#print(c)
Output: array([1, 2, 3, 4, 5, 6])
8) Create a dataframe with 3 rows and 2 columns
Solution : data={
     "Numbers": [1,2,3],
     "Letters":['a','b','c']
      pd.DataFrame(data)
```

Output:

	Numbers	Letters
0	1	а
1	2	b
2	3	С

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

dtype='datetime64[ns]', length=275, freq='D')

10) Create 2D list to DataFrame

```
Solution: lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
Output: lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
pd.DataFrame(lists)
```