#### **ASSIGNMENT - 1**

Assignment Date	14 September 2022
Student Name	Ms.Nandhini.R
Student Roll Number	2019504552
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

# 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	a	
1	2	b	
2	3	С	

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

# 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)

	0	1	2
0	1	aaa	22
1	2	bbb	25
2	3	CCC	24