Assignment - 1

Python Programming

PID Number	PNT2022TMID13322
Assignment Date	19 September 2022
Student Name	Puviyasree M
Maximum Marks	2 Marks

Question 1:

Split the String

Basic Python

1. Split this string

```
s = "Hi there Sam!".split()
print(s)
['Hi', 'there', 'Sam!']
```

Question 2:

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

```
In []:

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

The diameter of Earth is 12742 kilometers.
```

Question 3:

In this nest dictionary grab the word "hello"

```
[4]:
    d = {'k1':[1,2,3,('tricky':['oh','man','inception',{'target':[1,2,3,'hello']}]}}
    print(d['k1'][3]["tricky"][3]['target'][3])
hello
```

Question 4:

Create an array of 10 zeros?

Create an array of 10 fives?

```
In [6]: vin=np.zeros(10)
print(vin)

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

In [7]: y=np.ones(10)*5
print(y)

[5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

Question 5:

Create an array of all even integers from 20 to 35

```
In [8]: evn=np.arange(20,35,2) print("Array of even integers from 25 to 35") print(evn)

Array of even integers from 25 to 35 [20 22 24 26 28 30 32 34]
```

Question 6:

Create a 3X3 matrix with the values ranging from 0 to 8

```
In [9]: mat=np.arange(0,9).reshape((3,3))
    print(mat)

[[0 1 2]
    [3 4 5]
    [6 7 8]]
```

Question 7:

Concatenate a and b

a = np.array([1,2,3]) b = np.array([4,5,6])

Question 8:

Create a data frame with 3 rows and 2 columns

```
In [11]: import pandas as pd

In [13]: df=pd.DataFrame() print(df)

Empty DataFrame Columns: [] Index: []
```

Question 9:

Generates the series of dates starts from 1st JAN 2023, to 10th FEB 2023

```
import datetime
tes-datetime.datetime.strptime("01-1-2023", "%d-%m-%Y")
z-datetime.datetime.strptime("10-2-2023", "%d-%m-%Y")
dag-pd.date_range(tes,z)
print(dag.strftime("%d-%m-%Y"))

Index(('10-01-2023', '02-01-2023', '08-01-2023', '06-01-2023', '06-01-2023', '06-01-2023', '06-01-2023', '10-01-2023', '10-01-2023', '11-01-2023', '12-01-2023', '13-01-2023', '14-01-2023', '15-01-2023', '16-01-2023', '12-01-2023', '18-01-2023', '14-01-2023', '15-01-2023', '12-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '20-01-2023', '2
```

Question 10:

Create 2D list to data frame

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