Assignment Date	14 september 2022
Student Name	V.Deeepan Raj
Student Roll Number	510119205004
Maximum Marks	2

Basic Python

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1. Split this string
s = "Hi there deepan raj!"
x = s.split()
print(x)
['Hi', 'there', 'deepan', 'raj!']
italicized text## 2. Use .format() to print the following string.
Output should be: The diameter of Earth is 12742 kilometers.
planet = "Earth"
diameter = 12742
txt = "The diameter of {planet} is {diameter}
kilometers".format(planet = "Earth",diameter = 12742)
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']}]}]}
print(d['k1'][3]['tricky'][3]['target'][3])
hello
Numpy
import numpy as np
4.1 Create an array of 10 zeros?
4.2 Create an array of 10 fives?
array = np.zeros(10)
print("The array of 10 Zeros are:")
print(array)
The array of 10 Zeros are: [0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
array = np.ones(10)*5
print("The array of 10 Fives are:")
print(array)
```

```
The array of 10 Fives are: [5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
5. Create an array of all the even integers from 20 to 35
x = np.arange(0, 9).reshape(3,3)
print(x)
[[0 1 2]
[3 4 5]
 [6 7 8]]
6. Create a 3x3 matrix with values ranging from 0 to 8
x = np.arange(0, 9).reshape(3,3)
print(x)
[[0 1 2]
[3 4 5]
[6 7 8]]
7. Concatinate a and b
a = np.array([1, 2, 3]), b = np.array([4, 5, 6])
a = np.array([1, 2, 3])
b = np.array([4, 5, 6])
c = np.concatenate([a,b])
print(c)
[1 2 3 4 5 6]
Pandas
8. Create a dataframe with 3 rows and 2 columns
import pandas as pd
data = [['deepan raj', 20], ['rajesh', 19], ['aakash', 19]]
df = pd.DataFrame(data, columns=['Name', 'Age'])
print(df)
                 Age
          Name
0
   deepan raj
                  20
        rajesh
                  19
        aakash
9. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023
pd.date_range(start='1/1/2023', end='02/10/2023')
```

Age 22

25

Name

deepan

prakash vicky

S.No

0

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