## Assignment -1

## **Python Programming**

Assignment Date	19 September 2022	
Student Name	Mr. Pravin A	
Student Roll Number	820419104050	
Maximum Marks	2 Marks	

Question: 01. Split this string

s = "Hi there Sam!"

Question: 02. Use .format() to print the following string.

planet = "Earth"

diameter = 12742

```
planet = "Earth"
diameter = 12742
print ('The diameter of {planet} is {measure} kilometers'.format(planet="Earth", measure=12742.34))

✓ 0.5s

Python

The diameter of Earth is 12742.34 kilometers
```

Question: 03. In this nest dictionary grab the word "hello"

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

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

$\square$ 0.3s

Python
```

Numpy:

import numpy as np

```
import numpy as np

✓ 1.9s Python
```

## Question: 4.1. Create an array of 10 zeros?

```
import numpy as np
array=np.zeros(10)
print("An array of 10 zeros:")
print(array)

✓ 0.4s

Python

An array of 10 zeros:
[0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0. 0.]
```

# Question: 4.2. Create an array of 10 fives?

```
import numpy as np
array=np.ones(10)*5
print("An array of 10 fives:")
print(array)

✓ 0.3s

Pythor

An array of 10 fives:
[5. 5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
```

# Question: 05. Create an array of all the even integers from 20 to 35

```
import numpy as np
array=np.arange(20,35,2)
print("Array of all the even integers from 20 to 35")
print(array)

✓ 0.2s

Python

Array of all the even integers from 20 to 35

[20 22 24 26 28 30 32 34]
```

## Question: 06. Create a 3x3 matrix with values ranging from 0 to 8

## Question: 07. Concatenate a and b

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

```
isport many as in a * **no.**resy([1,1,2,3]))

print (**sist arrays*)

print (
```

## Question: 08. Create a dataframe with 3 rows and 2 columns

#### Question: 09. Generate the series of dates from 1st Jan, 2023 to 10th Feb, 2023

#### Question: 10. Create 2D list to DataFrame

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

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

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

import pandas as pd
lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
pd.DataFrame(lists, columns=['a', 'b', 'c'])

a b c

0 1 aaa 22
1 2 bbb 25
2 3 ccc 24
```