CMS COLLEGE OF ENGINEERING AND TECHNOLOGY

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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING

INTELLIGENT VEHICLE DAMAGE ASSESSMENT & COST ESTIMATOR FOR INSURANCE COMPANIES-ASSIGNMENT 1

DATE : 26-09-2022

PROBLEM: TO ANSWER THE QUESTIONS FOR THE ANSWERS

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OUTPUT:

SCREENSHOT:

Basic Python

1. Split this string

```
In [1]: s = "Hi there Sam!"
s=s.split()
print(s);
    ['Hi', 'there', 'Sam!']
In []:
```

2. Use .format() to print the following string.

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

```
In []: planet = "Earth"
    diameter = 12742

In [2]: planet = "Earth"
    diameter = 12742
    print( 'The diameter of {} is {} kilometers.' .format(planet,diameter));
    The diameter of Earth is 12742 kilometers.
```

3. In this nest dictionary grab the word "hello"

Numpy

```
In [ ]: import numpy as np
```

4.1 Create an array of 10 zeros?

4.2 Create an array of 10 fives?

```
In [4]: import numpy as np
array=np.zeros(10)
print("An array of 10 zeros:")
print(array)
array=np.ones(10)*5
print("An array of 10 fives:")
print(array)

An array of 10 zeros:
[0. 0. 0. 0. 0. 0. 0. 0. 0.]
An array of 10 fives:
[5. 5. 5. 5. 5. 5. 5. 5. 5. 5.]
In []:
```

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

```
In [5]: import numpy as np
    array=np.arange(20,36)
    print("Array of the integers from 20 to 35 ")
    print(array)

Array of the integers from 20 to 35
[20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35]
```

6. Create a 3x3 matrix with values ranging from 0 to 8

Out[6]: [[0, 1, 2], [3, 4, 5], [6, 7, 8]]

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

10. Create 2D list to DataFrame

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