Assignment – 1

Python Programming

Assignment Date	12/09/2022
Student Name	Sridhar.A
Student Roll Number	110519106702
Maximum Mark	2 Mark

1) Split this string

Solution:

```
Basic Python

1. Split this string

[1] s = "Hi there Sanjay!"

[2] s.split()
['Hi', 'there', 'Sanjay!']
```

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

Solution:

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

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

[3] planet = "Earth" diameter = 12742

[4] 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"

Solution:

4) Numpy

Solution:

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

Solution:

```
    5. Create an array of all the even integers from 20 to 35
    [ ] S = np.arange(20,35,2)
    s
    array([20, 22, 24, 26, 28, 30, 32, 34])
```

6) Create a 3×3 matrix with values ranging from 0 to 8

Solution:

7) Concatinate a and b

Solution:

```
    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]) np.concatenate((a,b),axis=0) array([1, 2, 3, 4, 5, 6])
```

8) Create a dataframe with 3 rows and 2 columns

Solution:

8. Create a dataframe with 3 rows and 2 columns	
[] import pandas as pd	
[] d = {"name":["Mani","Peter","Vicky"],"age":[20,21,22]} df = pd.DataFrame(d) df	
name age 0 Mani 20	
1 Peter 21	
2 Vicky 22	

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

Solution:

10) Create 2D list to Dataframe

Solution: