Assignment – 1

Python Programming

Assignment Date	12/09/2022
Student Name	Rathish Kanna C
Student Roll Number	110519106014
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:

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

Solution:

4) Numpy

Solution:

```
    Numpy
    import numpy as np
    4.1 Create an array of 10 zeros?
    4.2 Create an array of 10 fives?
    a = np.zeros(10)
        a
        array([0., 0., 0., 0., 0., 0., 0., 0.])
    b = np.ones(10)*5
        b
        array([5., 5., 5., 5., 5., 5., 5., 5.])
```

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:

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

■ P = pd.date_range(start='1-1-2023',end='10-2-2023')
for val in P:
    print(val)

■ 2023-01-03 00:00:00

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2023-01-20 00:00:00
```

10) Create 2D list to Dataframe

Solution: