Assignment -1Python Programming

Assignment Date	18 September 2022
Student Name	YUVARAJ S
Student Roll Number	211519205184
Maximum Marks	2 Marks

Question-1:

Split this string

s = "Hi there Sam!"

Ans

```
Run >

s = "Hi there Sam!"
x = s.split()
print(x)

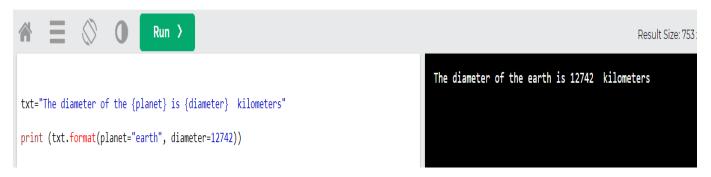
['Hi', 'there', 'Sam!']
```

Question-2:

Use .format() to print the following string.

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

Ans

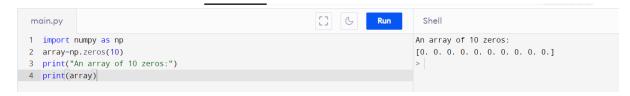


Question 3. In this nest dictionary grab the word "hello"

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

```
main.py
                                                            [] 6
                                                                       Run
                                                                                 Shell
  1 - d = {
                                                                                hello
  2 * 'k1': [1, 2, 3, {
       'tricky': ['oh', 'man', 'inception', {
  3 +
  4
          'target': [1, 2, 3, 'hello']
       }]
  5
  6
     }]
  7 }
10 print ( d['k1'][3]['tricky'][3]['target'][3] )
```

Question 4.1 Create an array of 10 zeros?



Question 4.2 Create an array of 10 fives?



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

Ans



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

Ans



Question 7. Concatenate a and b

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

```
main.py

1 import numpy as np
2 a = np.array([1, 2, 3])
3 b = np.array([4, 5, 6])
4 gfg = np.concatenate((a, b), axis = 0)
5
6 print (gfg)

Shell

[1 2 3 4 5 6]
> |
```

Question 8. Create a dataframe with 3 rows and 2 columns

```
main.py

1 import pandas as pd
2 data = {'Name':['Renault', 'Duster', 'Maruti'], 'Ratings':[9.0, 8.0, 5.0]}

3 df = pd.DataFrame(data)

4 print(df)

Shell

Name Ratings
0 Renault 9.0
1 Duster 8.0
2 Maruti 5.0
>
```

Question 9. 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]]

Ans:

```
Run
main.py
                                                                                    Shell
1 import pandas as pd
                                                                                   slno Name Age
2 lists = [[1, 'aaa', 22], [2, 'bbb', 25], [3, 'ccc', 24]]
                                                                                   0
                                                                                         1 aaa
                                                                                                  22
3 df = pd.DataFrame(lists, columns =[ 'slno ', 'Name', 'Age'])
                                                                                         2
                                                                                            bbb
                                                                                                  25
4 print(df)
                                                                                   2
                                                                                         3 ccc
                                                                                                  24
```