# **Assignment -1**Python Programming

Assignment Date	18 September 2022
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Maximum Marks	2 Marks

## Question-1:

# Split this string

s = "Hi there Sam!"

## Ans

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

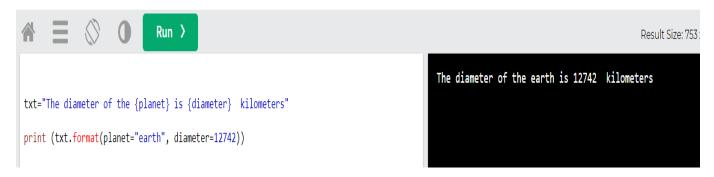
['Hi', 'there', 'Sam!']
```

# Question-2:

Use .format() to print the following string.

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

## Ans

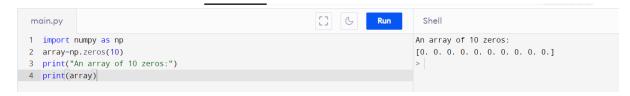


Question 3. In this nest dictionary grab the word "hello"

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
```