

## Python Programming

### Assignment : 2

1. Create a module named as Arithmetic which contains 4 functions as Add() for addition, Sub() for subtraction, Mult() for multiplication and Div() for division. All functions accept two parameters as number and perform the operation. Write a python program which calls all the functions from Arithmetic module by accepting the parameters from user.

2. Write a program which accepts one number and displays the below pattern.

Input : 5

Output :

```
* * * * *
* * * * *
* * * * *
* * * * *
* * * * *
```

3. Write a program which accepts one number from user and returns its factorial.

Input : 5 Output : 120

4. Write a program which accepts one number from user and returns the addition of its factors.

Input : 12 Output : 16 (1+2+3+4+6)

5. Write a program which accepts one number from user and checks whether the number is prime or not.

Input : 5 Output : It is Prime Number

6. Write a program which accepts one number and displays the below pattern.

Input : 5

Output :

```
* * * * *
* * * *
* * *
* *
*
```

7. Write a program which accepts one number and displays the below pattern.

Input : 5

Output :

```
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
1 2 3 4 5
```

8. Write a program which accepts one number and displays the below pattern.

Input : 5

Output :

```
1
1 2
1 2 3
1 2 3 4
1 2 3 4 5
```

9. Write a program which accepts a number from user and returns the number of digits in that number.

Input : 5187934 Output : 7

10. Write a program which accept number from user and return addition of digits in that number.  
Input : 5187934                      Output : 37

Note :

For each above question please create separate .py file as

Assignment2\_1.py

Assignment2\_2.py

Assignment2\_3.py

Every applications logic should be enclosed in function.

