

## ITC LAB #07 Section A

### LAB TASK

1. Modify a calculator you made in the last lab. This time your function ask **user to enter the number** and the **operation you want to perform (+, -, \*, /)** after the operation is performed your program should ask the user **whether you want to continue (Y/N)?** your program will exit only when user enter "N"

Hint: use while loop

```
enter number: 1
enter number: 2
For Addition press 1
For Subtraction press 2
For Multiplication press 3
For Division press 4
enter operation: 1
Addition: 3
you want to continue (y/n)? y
enter number: 3
enter number: 2
For Addition press 1
For Subtraction press 2
For Multiplication press 3
For Division press 4
enter operation: 3
Multiplication: 6
you want to continue (y/n)? n
```

2. Write a **Python Function** to get the Fibonacci series between 0 to user input range.

Note : The Fibonacci Sequence is the series of numbers :

0, 1, 1, 2, 3, 5, 8, 13, 21, ....

Every next number is found by adding up the two numbers before it.

3. Write a program which will find all such numbers which are divisible by 7 but are not a multiple of 5, between 2000 and 3200 (both included).

4. Write a **Python function** to construct the following pattern, using a for loop. **User should enter a symbol** e.g \*,^,@,- etc and your function should a pattern like this of that symbol

e.g

Enter Symbol: \*

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

5. Write a **Python program** which iterates the integers from 1 to 50. For multiples of three print "Multiple of 3" instead of the number and for the multiples of five print " Multiple of 5". For numbers which are multiples of both three and five print " Multiple of 3 & 5"