

# **Lab Hand-out 4**

## **Conditional Statement & For Loop**

### Task1

Write a program in C++ to display the multiplication table vertically from 1 to n. n may be taken as an input from the user.

Sample Output:

n = 5

1x1=1	2x1=2	3x1=3	4x1=4	5x1=5
1x2=2	2x2=4	3x2=6	4x2=8	5x2=10
1x3=3	2x3=6	3x3=9	4x3=12	5x3=15
1x4=4	2x4=8	3x4=12	4x4=16	5x4=20
1x5=5	2x5=10	3x5=15	4x5=20	5x5=25
1x6=6	2x6=12	3x6=18	4x6=24	5x6=30
1x7=7	2x7=14	3x7=21	4x7=28	5x7=35
1x8=8	2x8=16	3x8=24	4x8=32	5x8=40
1x9=9	2x9=18	3x9=27	4x9=36	5x9=45
1x10=10	2x10=20	3x10=30	4x10=40	5x10=50

### Task2

Write a program in C++ to make such a pattern like a pyramid with an asterisk. Number of rows may be taken as an input from the user.

Sample Output:

Input number of rows: 5

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

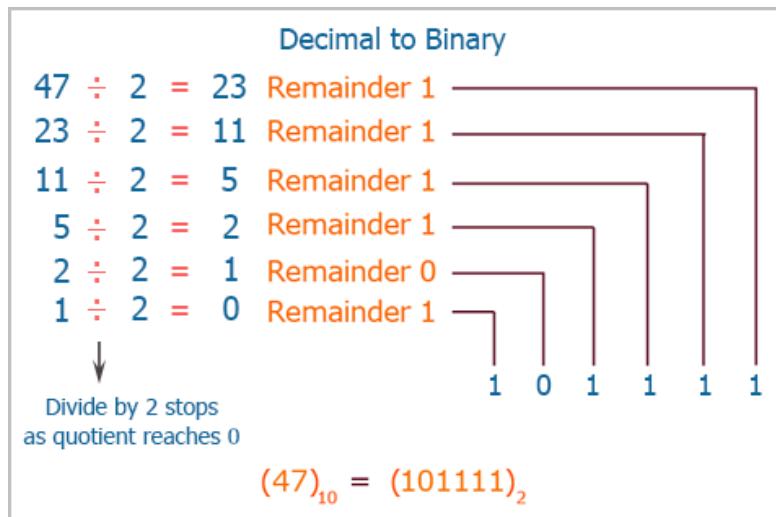
### Task3

Write a program in C++ to convert a decimal number to binary number.

Sample Output:

Input a decimal number: 35

The binary number is: 100011



### Task4

Write a program in C++ to convert a binary number to decimal number.

Sample Output:

Input a binary number: 1011

The decimal number: 11

