



Lab No. 6: Ternary Operator and Loops

Objective:

- To be familiar with the ternary operator
- To be familiar with the for loop, while loop and do while loop
- To be familiar with nested for loop, nested while loop and nested do while loop

TASKS:

1. Write a C++ program to find maximum number using ternary operator
2. Write a C++ program, take two strings as input from user and check if both strings are equal or not using ternary operator
3. Convert the following while loop to a do while loop:

```
#include<iostream>
using namespace std;

int main()
{
    int x = 1;
    while (x>0)
    {
        cout << "Enter a number: ";
        cin >>x;
    }
    return 0;
}
```

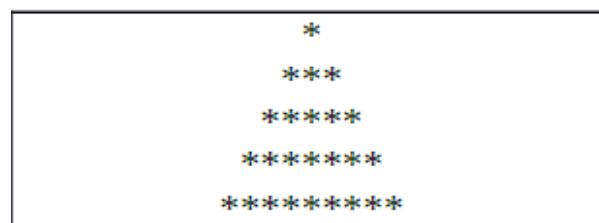
4. Write a C++ program, take two integer i (starting point) and n (ending point) from user and print all even numbers between i to n using while loop.

For example: Let say i=5; and n =20; Output should be (6 8 10 12 14 16 18 20).

5. Calculate the sum of odd natural numbers 1+3+5+7+..... + n using while loop.

Take n as input from user.

6. Use nested for loops (Loops inside Loops) to construct programs that display the following patterns.



7. Write a C++ program to print whole numbers in reverse from n to 0 using while loop.
8. Write a C++ program to display 4 days of 2 weeks by using nested for loop. Output should be like this.

```
Week : 1
  Day:1
  Day:2
  Day:3
  Day:4
Week : 2
  Day:1
  Day:2
  Day:3
  Day:4
```

9. Write a C++ program to find maximum number using ternary operator.
10. Write a C++ program that print the multiplication table up to 12 for the number 5.
11. Write a C++ program to find the factorial of a given number.
12. Write a program to print all whole numbers in reverse (from n to 1).