

Lab Task # 6

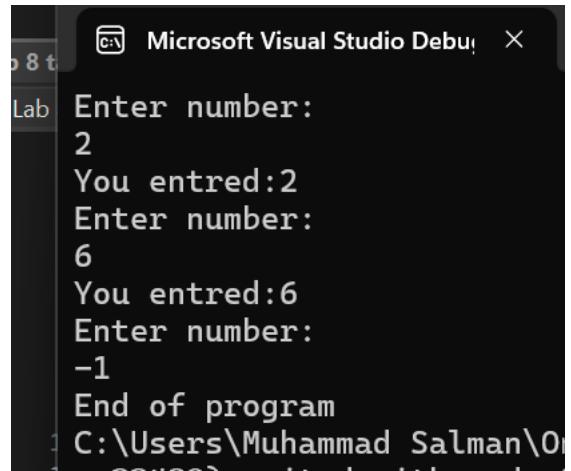
Q1. Write a program that repeatedly asks the user to enter a number and displays the entered number. The loop should continue until the user enters -1, at which point the program should display a message indicating the end of the program.

Solution:

```
#include <iostream>

using namespace std;

int main() {
    int n = 0;
    while (n != -1) {
        cout << "Enter your number:\n";
        cin >> n;
        if (n != -1)
            cout << "You entred:" << n << endl;
    }
    cout << "End program";
    return 0;
}
```



The screenshot shows the Microsoft Visual Studio Debug window. It displays the following text:
Enter number:
2
You entred:2
Enter number:
6
You entred:6
Enter number:
-1
End of program
C:\Users\Muhammad Salman\O

Q2. Write a program using a do-while loop and while to print a square pattern of stars (*) of size 5x5.

Solution:

Using While Loop First:

```
#include<iostream>

using namespace std;

int main() {

    int i = 1;

    while (i<=5)

    {

        int j = 1;

        while (j <= 5)

        {

            cout << "*";
            j++;

        }

        cout << endl;
        i++;

    }

    return 0;
}
```



The screenshot shows the Microsoft Visual Studio Debug window. It displays a 5x5 square pattern of asterisks (*). The pattern is as follows:

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

Below the pattern, the command prompt shows the path: C:\Users\Muhammad Salman\On... and the message: <--(1680) exited with code: 0.

Using do-While Loop:

```
#include<iostream>

using namespace std;

int main() {

    int i = 1;

    do {

        int j = 1;

        do {

            cout << "*";

            j++;

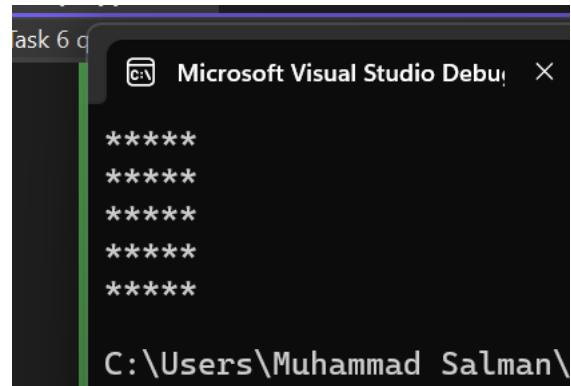
        } while (j <= 5);

        cout << endl;

        i++;

    } while (i <= 5);

    return 0;
}
```



The screenshot shows the Microsoft Visual Studio Debug window titled "Task 6 c". The output pane displays the following text:

C:\Users\Muhammad Salman\