

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 entered:" << n << endl;
    }
    cout << "End program";
    return 0;
}
```



```
Microsoft Visual Studio Debug Console
Enter number:
2
You entered:2
Enter number:
6
You entered: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;
```

}



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;

}
```

