

# CLASS TASKS

## Class task#1:

### Source code:

```
#include<iostream>

using namespace std;

int main()
{
    cout << "\n\t\t Guess Game While_Switch Based:" << endl;
    int low = 0;
    int high = 101;
    int tries = 0;
    char response = 'h';
    cout << "Now its my turn I guess your secret number" << endl;
    cout << " You can think of a number b/w [1-100]" << endl;
    cout << " If its [H]igh press 'h' or its [L]ow press l , [c]for correct" << endl;
    do {

        int guess = (low + high) / 2;
        cout << " I guess no is " << guess << endl;
        cout << "Your Response!?" << endl;
        cin >> response;
        ++tries;
        switch (response)
        {
            case 'h': {
                low = guess;
                break; }
            case 'l': {
                high = guess; break; }

            case 'c': {
                cout << "I guess correct only " << tries << "tries" << endl; break;
            }
            default:
                cout << "I cant understand your response" << response << endl;
        }

    } while (response != 'c');
    cout << "Thank you Bye BYE" << endl;
}
```

## **Output:**

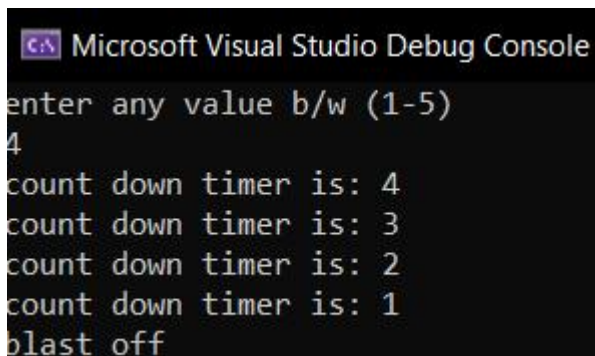
```
C:\Users\Pcw G-210\Desktop\programing\recursion\Project6\x64\Debug\guess no.e
    Guess Game While_Switch Based:
Now its my turn I guess your secret number
You can think of a number b/w [1-100]
If its [H]igh press 'h' or its [L]ow press l , [c]for correct
I guess no is 50
Your Response!??
50
I cant understand your response5
I guess no is 50
Your Response!??
I cant understand your response0
I guess no is 50
Your Response!??
50
I cant understand your response6
I guess no is 50
```

## Class task#2:

### Source code:

```
#include <iostream>
using namespace std;
void count_down(int k);
int main()
{
    int timer;
    cout << "enter any value b/w (1-5)" << endl;
    cin >> timer;
    count_down(timer);
}
void count_down(int numb)//5-->4
{
    if (numb == 0)
        cout << "blast off" << endl;
    else {
        cout << "count down timer is: " << numb << endl;//5,4,3,2,1
        count_down(numb-1);
    }
}
```

### Output:



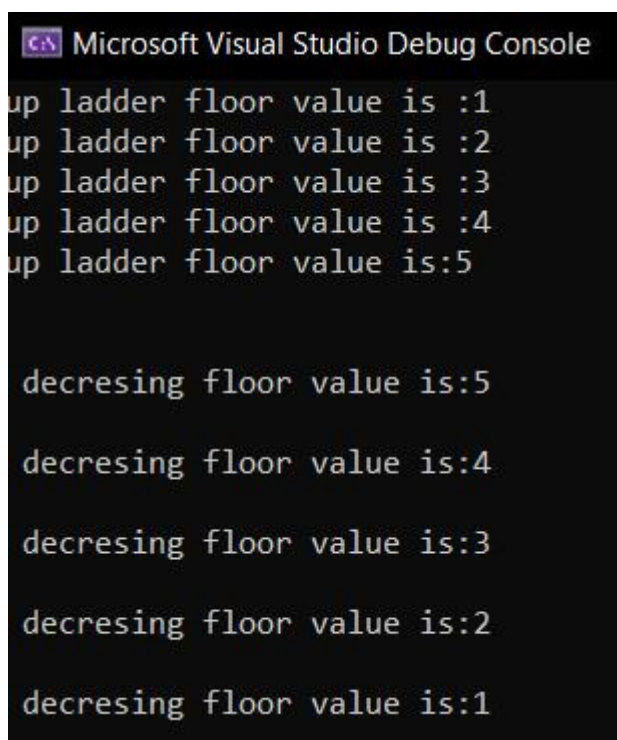
```
Microsoft Visual Studio Debug Console
enter any value b/w (1-5)
4
count down timer is: 4
count down timer is: 3
count down timer is: 2
count down timer is: 1
blast off
```

## Class task#3:

### Source code:

```
#include<iostream>
using namespace std;
void level_up_down(int k);
int main()
{
    level_up_down(1);
}
void level_up_down(int floor)
{
    if (floor <= 4) {
        cout << "up ladder floor value is :" << floor << endl;
        level_up_down(floor + 1);
    }
    else {
        cout << "up ladder floor value is:" << floor << endl << endl;
    }
    cout << "\n decreasing floor value is:" << floor << endl;
}
```

### Output:



Microsoft Visual Studio Debug Console

```
up ladder floor value is :1
up ladder floor value is :2
up ladder floor value is :3
up ladder floor value is :4
up ladder floor value is:5

decreasing floor value is:5
decreasing floor value is:4
decreasing floor value is:3
decreasing floor value is:2
decreasing floor value is:1
```