

Lab Manual 6 (Home Task)

Question 1:

```
1. #include <iostream>
2. using namespace std;
3. int main(){
4.     int i,j,n=5;
5.     for(i=1; i<=n; i++){
6.         for(j=1; j<=i; j++){
7.             cout<<j<<" ";
8.
9.         }
10.        cout<<endl;
11.    }
12.
13.
14.}
```

The screenshot shows a C++ IDE with the following components:

- File Explorer:** Displays the project structure with files `lab maual 6 home task 1.cpp` and `lab manual 6-home task2.cpp`.
- Code Editor:** Contains the C++ code for Question 1, which is a program to print a triangular pattern of numbers from 1 to 5.
- Output Window:** Shows the execution output, which is a triangular pattern of numbers: `1`, `1 2`, `1 2 3`, `1 2 3 4`, and `1 2 3 4 5`. Below the output, it states: `Process exited after 0.00991 seconds with return value 0` and `Press any key to continue . . .`.
- Compiler Window:** Shows the compilation status, with a button to `Abort Compilation` and a checkbox for `Shorten compiler paths`.
- Taskbar:** Displays the Windows taskbar with various application icons and the system clock showing 8:54 PM on 11/23/2023.

Question 2:

```

1. #include <iostream>
2. using namespace std;
3. int main(){
4.     int r,c;
5.     cout<<"1"<<endl;
6.     for(r=1; r<=6; r++){
7.         for(c=1; c<=r; c++){
8.             if(r%2!=0){
9.                 continue;
10.            }
11.            cout<<r<<" ";
12.        }
13.        cout<<endl;
14.    }
15.
16.
17.}

```

The screenshot displays the Dev-C++ IDE interface. The main window shows the C++ source code for a program that prints a pattern of numbers. The output window, located at the bottom, shows the execution results: '1', '2 2', '4 4 4 4', and '6 6 6 6 6 6'. A compiler message box at the bottom indicates the process exited successfully after 0.08864 seconds.

```

1 #include <iostream>
2 using namespace std;
3 int main()
4 {
5     int r,c;
6     cout<<"1"<<endl;
7     for(r=1; r<=6; r++){
8         for(c=1; c<=r; c++){
9             if(r%2!=0){
10                continue;
11            }
12            cout<<r<<" ";
13        }
14        cout<<endl;
15    }
16
17 }

```

Output:

```

1
2 2
4 4 4 4
6 6 6 6 6 6

```

Compiler Message:

```

Process exited after 0.08864 seconds with return value 0
Press any key to continue . . .

```