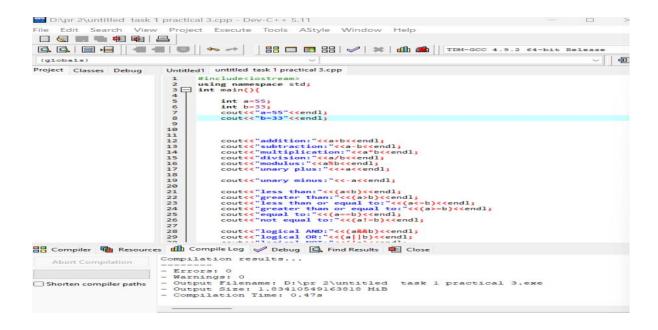
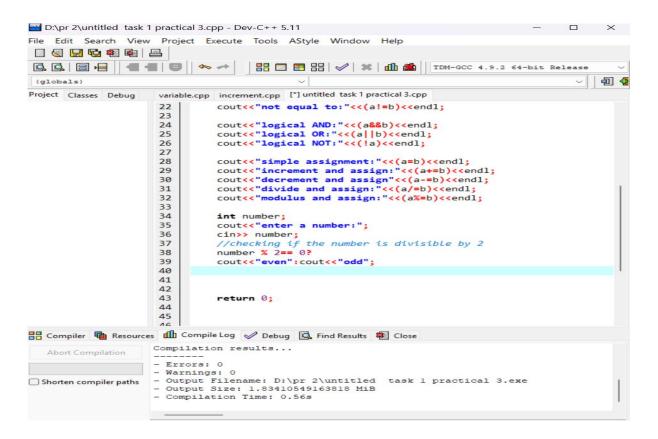
Name: Mahnoor Roll No: k24SW-042

Task No 1: Create a program in C or C++ that uses all the operators discussed in the manual.

C++: input





C++ output

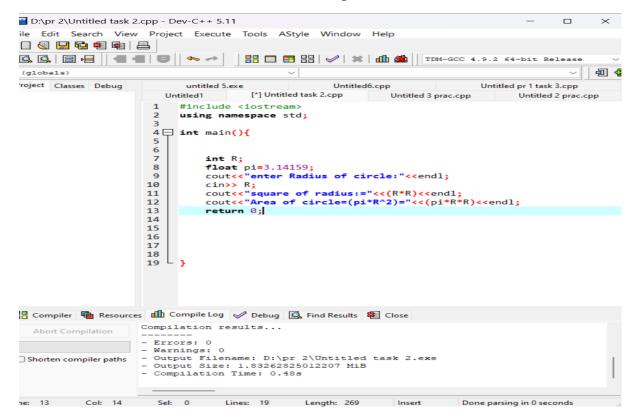
```
□ D:\pr 2\untitled task 1 p ×
a=55
b=33
addition:88
subtraction:22
multiplication:1815
division:1
modulus:22
unary plus:55
unary minus:-55
less than:0
greater than:1
less than or equal to:0 greater than or equal to:1
equal to:0
not equal to:1
logical AND:1
logical OR:1
logical NOT:0
simple assignment:33
increment and assign:66 decrement and assign33 divide and assign:1
modulus and assign:1
enter a number:
```

C++: input

```
D:\pr 2\increment.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug
                            variable.cpp increment.cpp untitled task 1 practical 3.cpp
                             #include<iostre</pre>
                              1  |#include<lostream>
2    using namespace std;
3  |= int main(){
4    int w;
5    cout<<"enter a number";
6    cin>> w;
                                        cout<<"post increment:"<<w++ <<endl;
cout<<"pre>printing w:"<<w <<endl;
cout<<"pre>pre increment:"<<++w <<endl;
cout<<"printing w:"<<w <<endl;
cout<<"post decrement:"<<-w <<endl;
cout<<"pre>cout<<"pre>printing w:"<<w- <<endl;
cout<<"pre>cout<<"pre>printing w:"<<w- <<endl;
cout<</pre>
                              8
                            11
12
                            13
14
15
16
17
18
19
                                         return 0:
                            20
21
22
                            24
Compiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🔼 Find Results ቘ Close
                          Compilation results...
   Abort Compilation
                          Shorten compiler paths
```

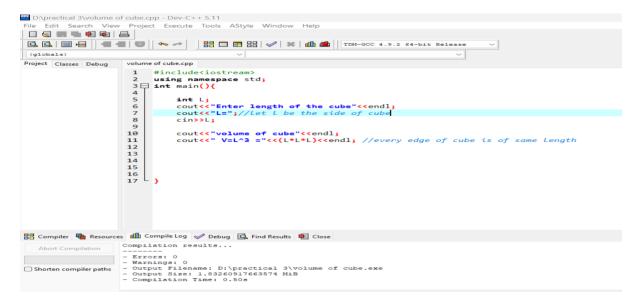
Task No 2: Write a C++ program to calculate the area of a circle. The radius of circle must be taken from user.

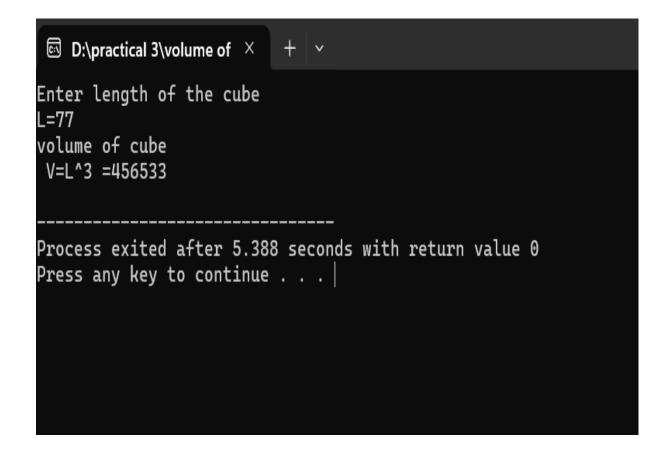
C++: input



Task No 3: Write a C program to calculate the volume of cube. The parameters must be taken by user.

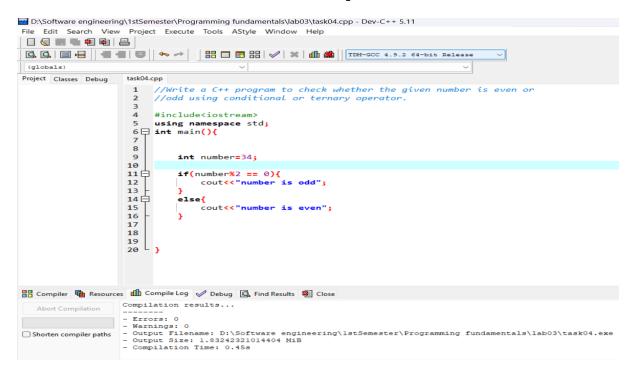
C++: input

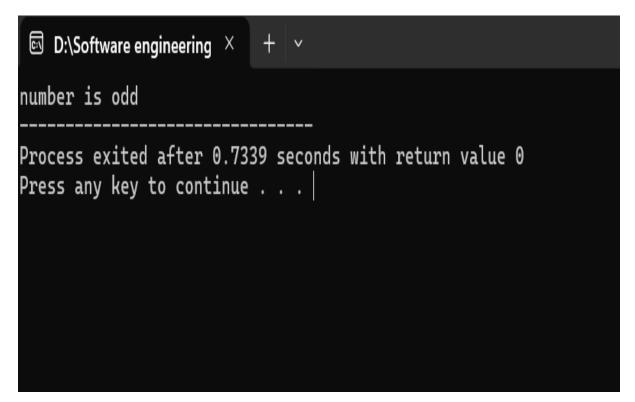




Task No 4: Write a C++ program to check whether the given number is even or odd using conditional or ternary operator.

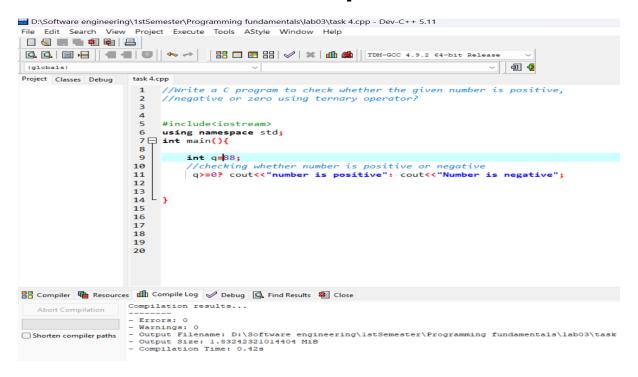
C++: input

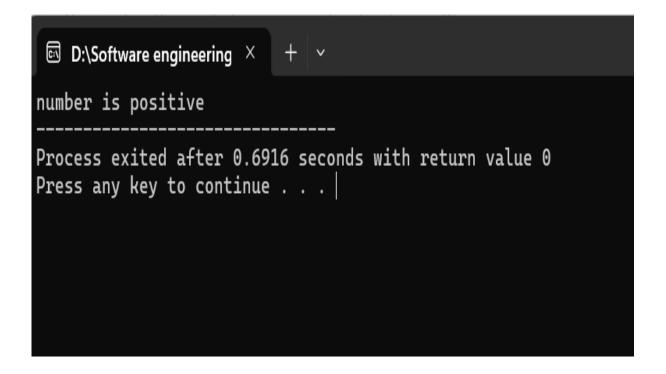




Task No 5: Write a C program to check whether the given number is positive, negative or zero using ternary operator?

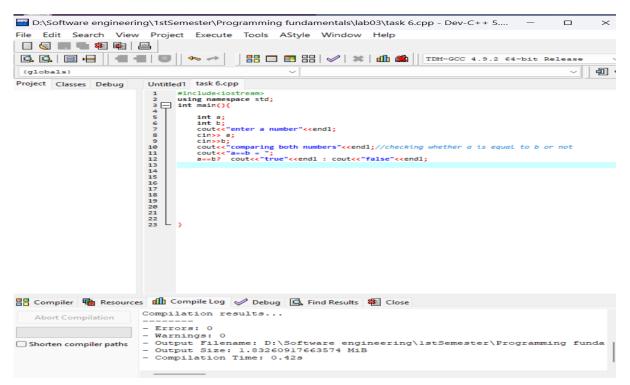
C++: input

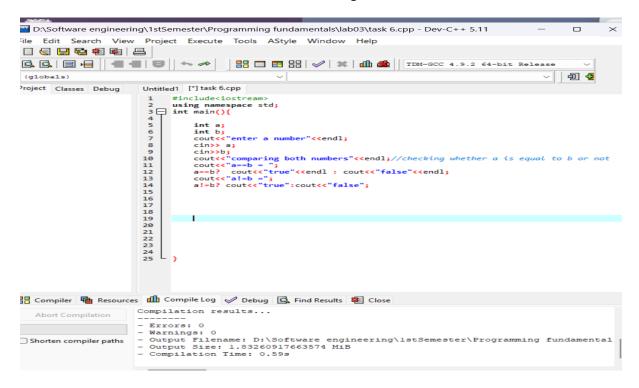


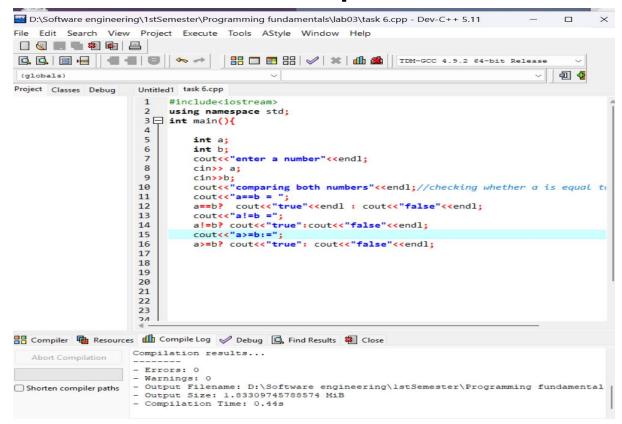


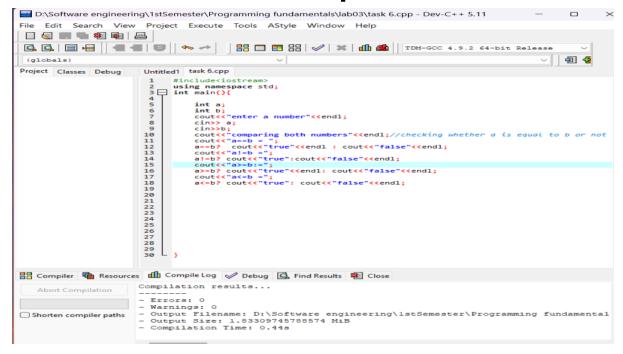
Task No 6: Write a program that takes two integers as input from the user. Compare the two numbers using the following relational operators: ==,!=, <, >, <=,>= and display the result of each comparison.

C++: input



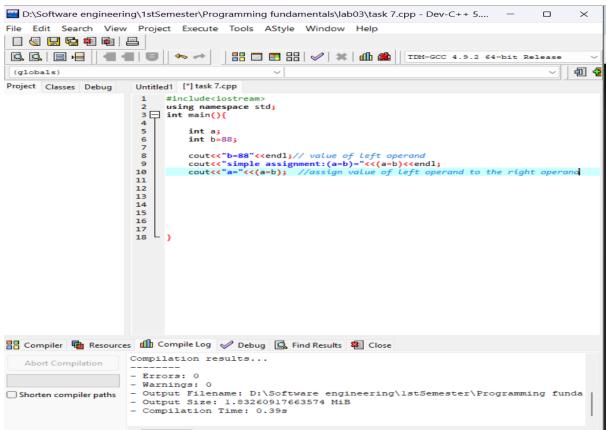






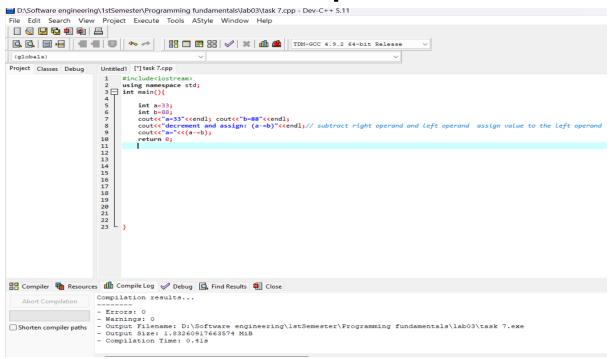
Task No 7: Write a program to input a number and use assignment operators to modify the value of the number, Display the results after each operation.

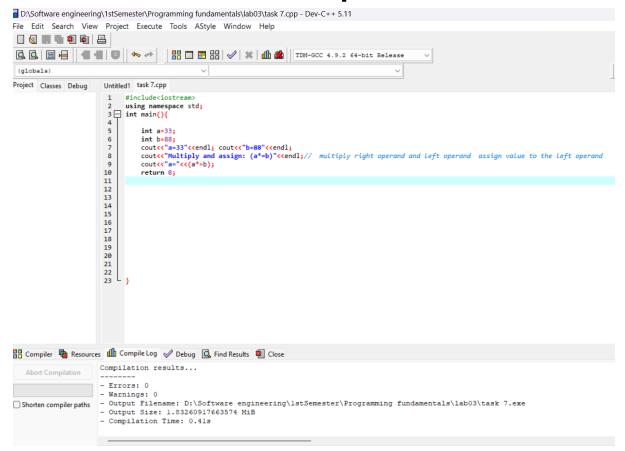
C++: input

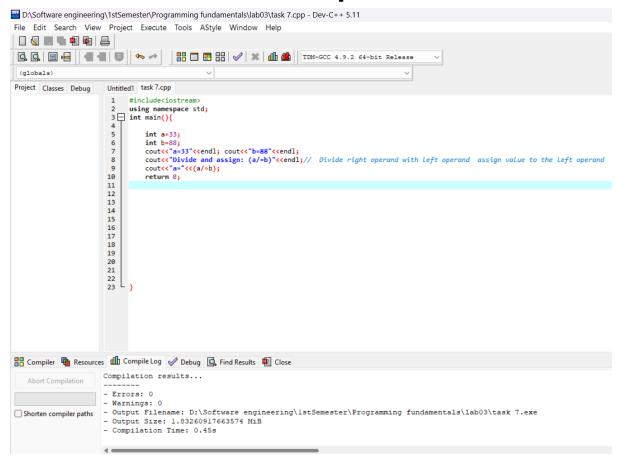


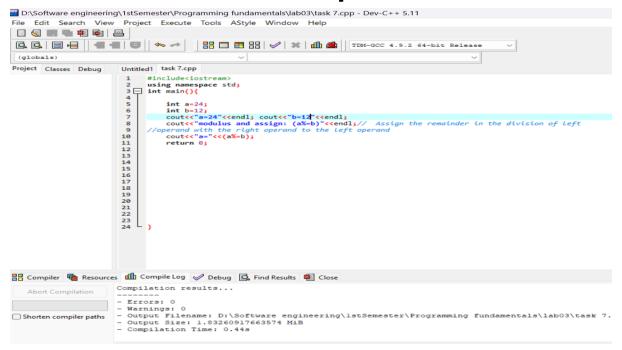
```
b=88
simple assignment:(a=b)=88
a=88
------
Process exited after 1.426 seconds with return value 0
Press any key to continue . . .
```

```
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Classes Debug Untitled1 [*] task 7.cpp
                                                                                  1 #include<iostream>
                                                                                    2 using namespace std;
3  int main(){
                                                                                                                  int b=88;
                                                                                                                cout<<"a=33"<<endl; cout<<"bearing in the cout of the cout of
                                                                                    7
8
                                                                                 11
12
13
14
15
16
17
18
19
                                                                                 20
21
22
23
🔡 Compiler 🖷 Resources 🛍 Compile Log 🤣 Debug 🗓 Find Results 🕷 Close
                                                                       Compilation results...
            Abort Compilation
       - Errors: 0
- Warnings:
                                                                            - Warnings: 0
Shorten compiler paths - Output Filename: D:\Software engineering\lstSemester\Programming fundamentals\lab03\task 7.exe - Output Size: 1.83260917663574 MiB
                                                                           - Compilation Time: 0.50s
```



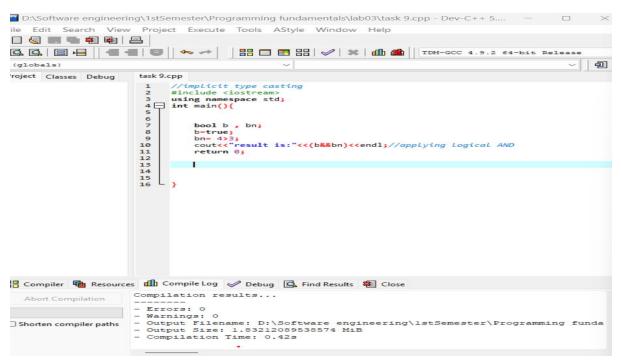




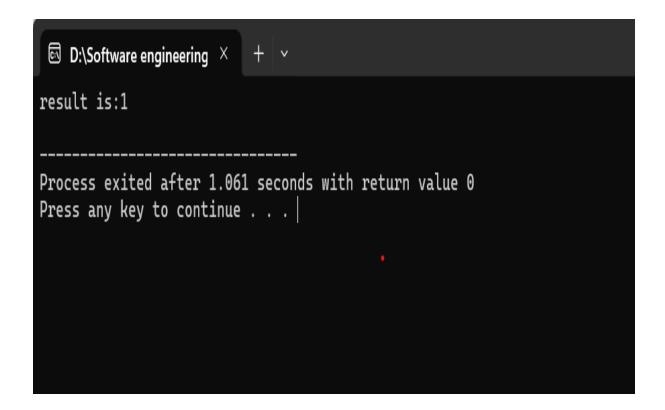


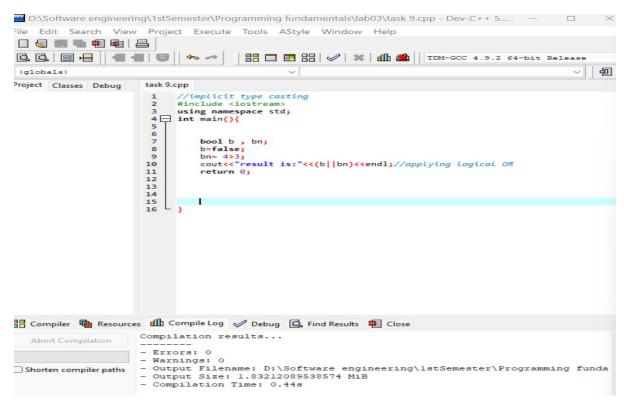
Task No 8: Write a program to demonstrate the use of logical operators (& Department of the user), ||, !) Input two Boolean values from the user. Apply logical AND, OR, and NOT on the values and display the results.

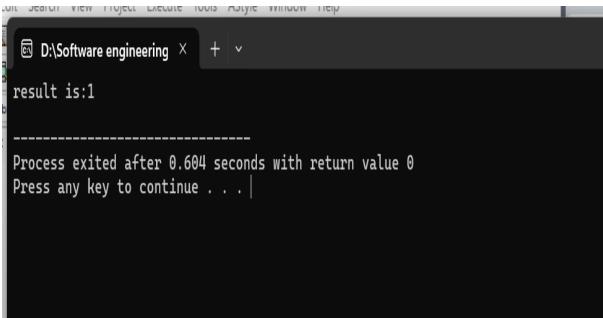
C++: input

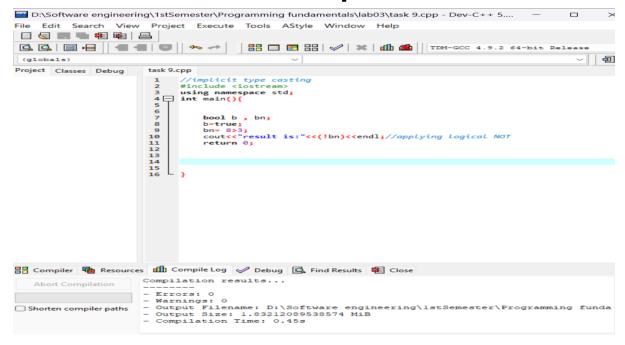


C++: output





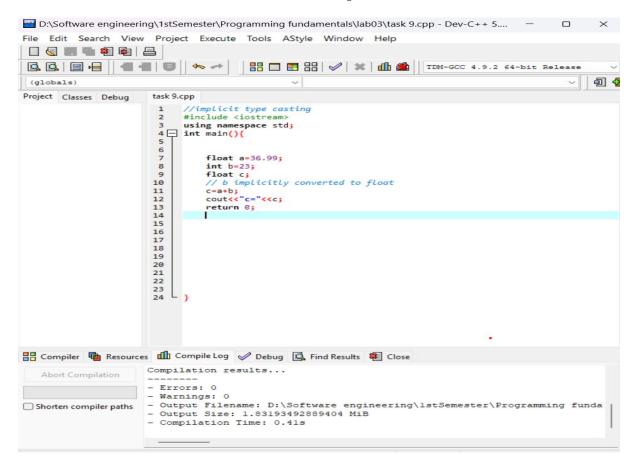


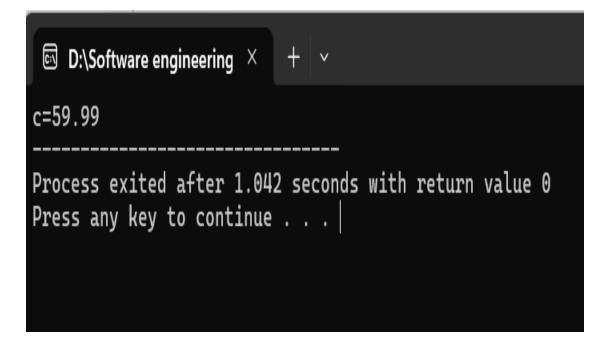


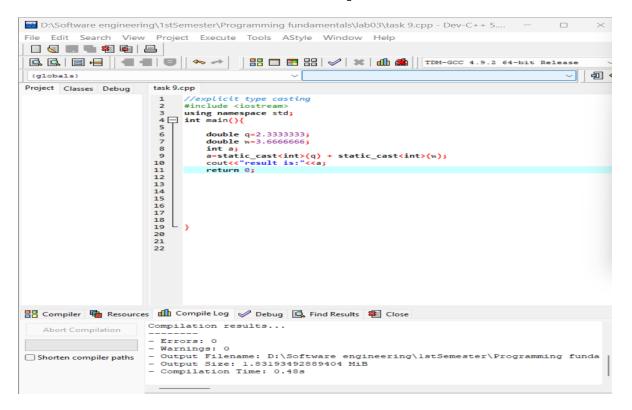


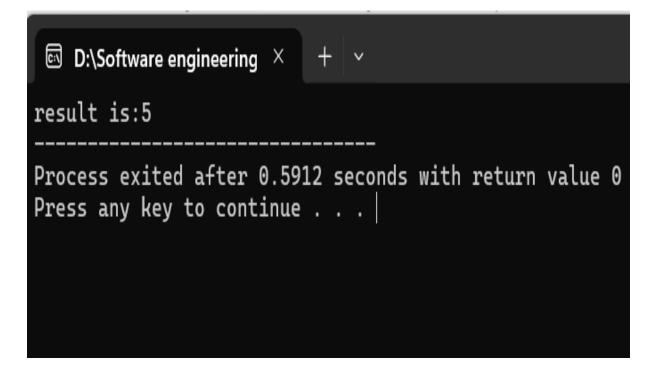
Task No 9: Write a program in C++ that shows the example of implicit and explicit type casting

C++: input









Task No 10: Write a program in C++ to show the use of Bitwise Operators

C++: input

C++: output

```
D:\Software engineering × + v

bitwise not operator result=32
------
Process exited after 0.5805 seconds with return value 0
Press any key to continue . . .
```

THE END