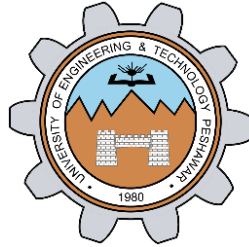


INTRODUCTION TO C++.
LAB REPORT # 01



Spring 2023
CSE103L Circuits & Systems-I Lab

Submitted by: **Naveed Ahmad**

Registration No: **22pwcse2165**

Class Section: **B**

“On my honor, as student of University of Engineering and Technology, I have neither given nor received unauthorized assistance on this academic work.”

Student Signature: _____

Submitted to:

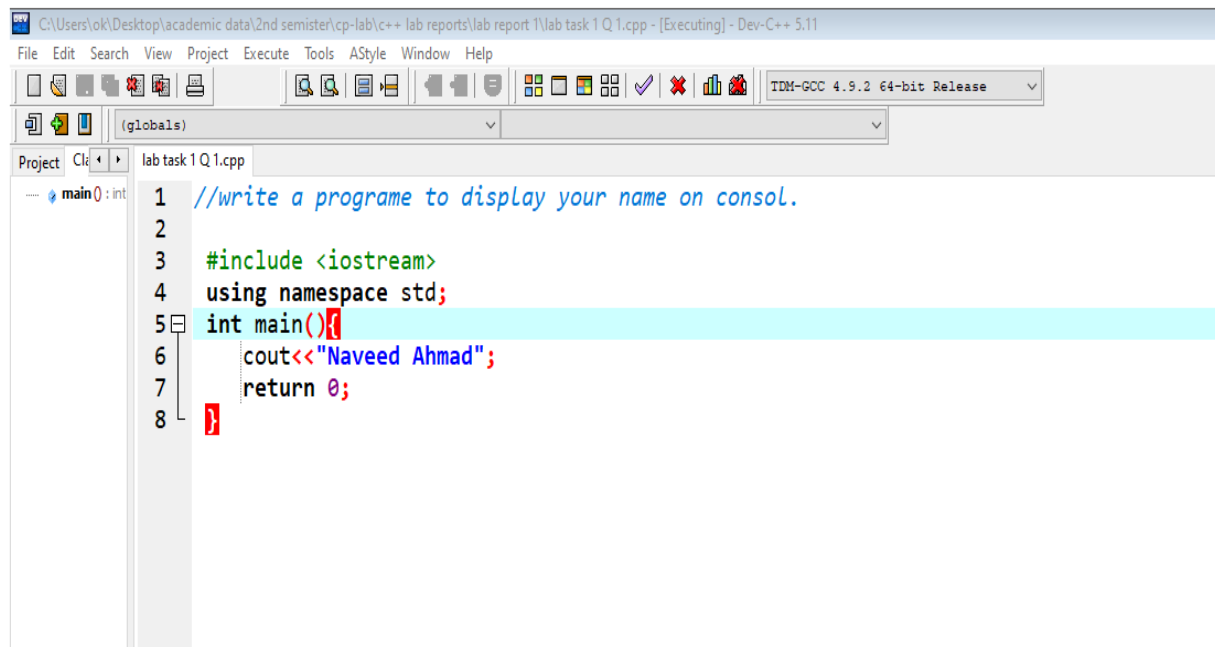
Mr. Abdullah Hamid

May 27, 2023

Department of Computer Systems Engineering
University of Engineering and Technology, Peshawar

Task 01:

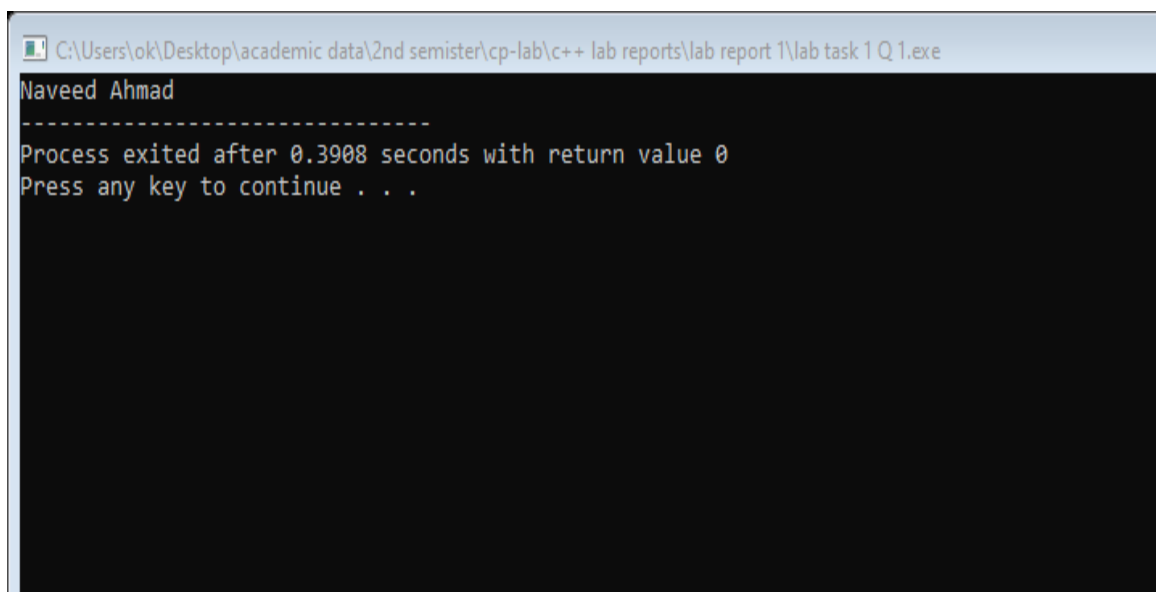
Write a program to display your name on console.



The screenshot shows a C++ IDE window titled "C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1 Q 1.cpp - [Executing] - Dev-C++ 5.11". The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. The toolbar contains various icons for file operations and execution. The compiler is set to "TDM-GCC 4.9.2 64-bit Release". The project explorer on the left shows "lab task 1 Q 1.cpp" and "main0 : int". The code editor displays the following code:

```
1 //write a program to display your name on consol.
2
3 #include <iostream>
4 using namespace std;
5 int main()
6 {
7     cout<<"Naveed Ahmad";
8     return 0;
9 }
```

Task 1 code screenshot



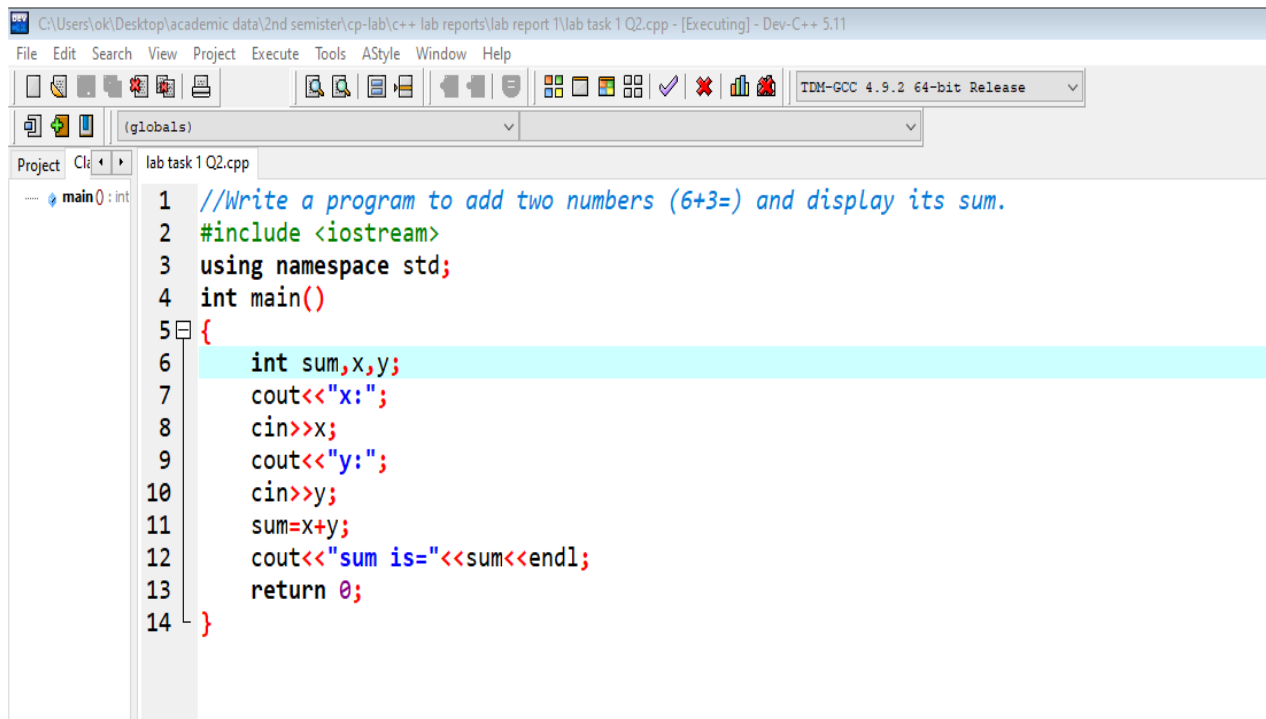
The screenshot shows a console window titled "C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1 Q 1.exe". The output is as follows:

```
Naveed Ahmad
-----
Process exited after 0.3908 seconds with return value 0
Press any key to continue . . .
```

Output

Task 02:

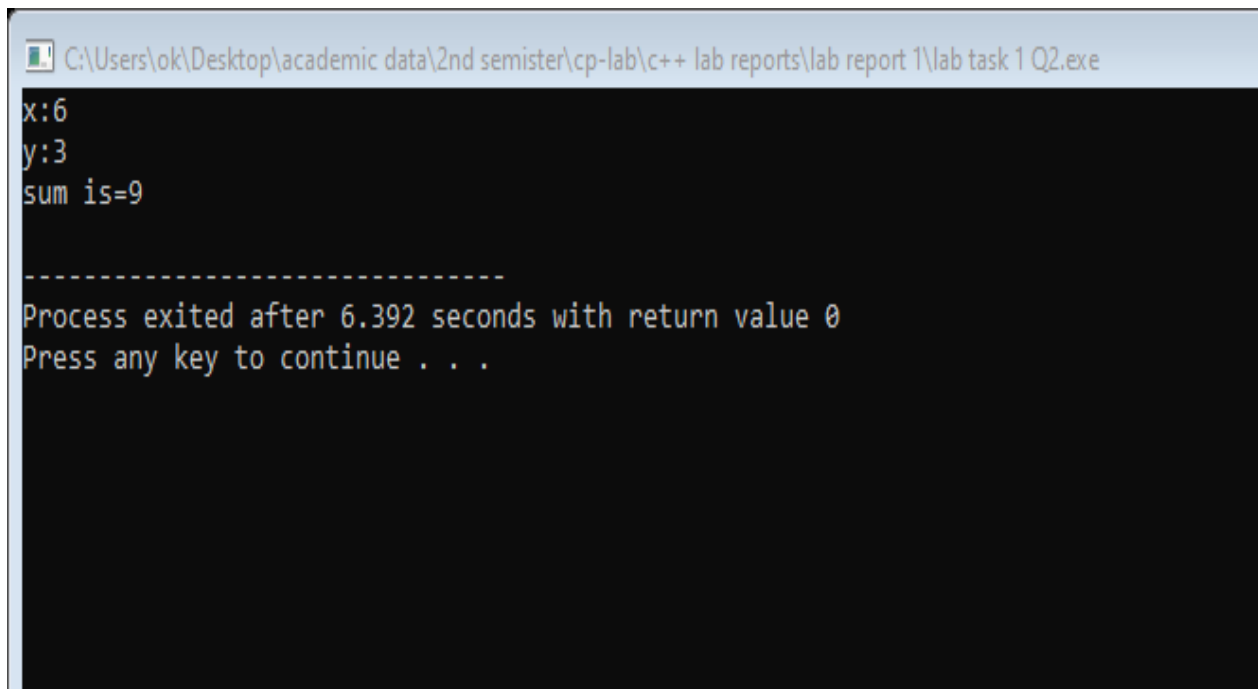
Write a program to add two numbers (6+3=) and display its sum.



The screenshot shows a C++ IDE window titled "C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1 Q2.cpp - [Executing] - Dev-C++ 5.11". The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. The toolbar contains various icons for file operations and execution. The compiler is set to "TDM-GCC 4.9.2 64-bit Release". The project is "lab task 1 Q2.cpp". The code is as follows:

```
1 //Write a program to add two numbers (6+3=) and display its sum.
2 #include <iostream>
3 using namespace std;
4 int main()
5 {
6     int sum,x,y;
7     cout<<"x:";
8     cin>>x;
9     cout<<"y:";
10    cin>>y;
11    sum=x+y;
12    cout<<"sum is"<<sum<<endl;
13    return 0;
14 }
```

Task 02 code screenshot



The screenshot shows the output of the program in a command prompt window titled "C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1 Q2.exe". The output is as follows:

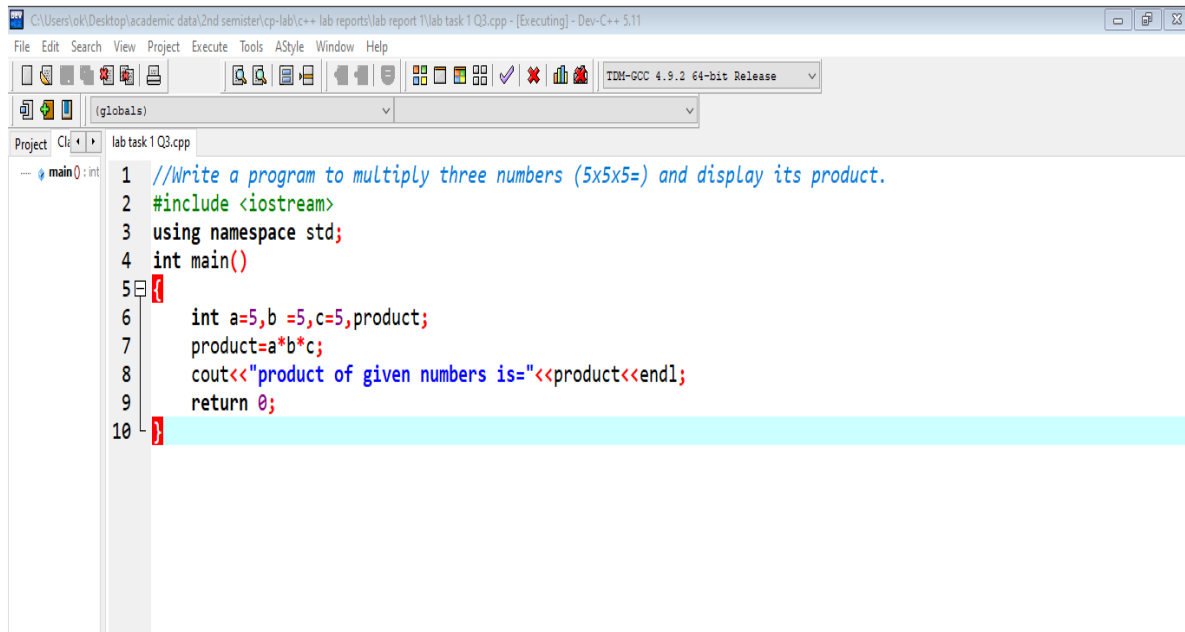
```
x:6
y:3
sum is=9

-----
Process exited after 6.392 seconds with return value 0
Press any key to continue . . .
```

Output

Task 03:

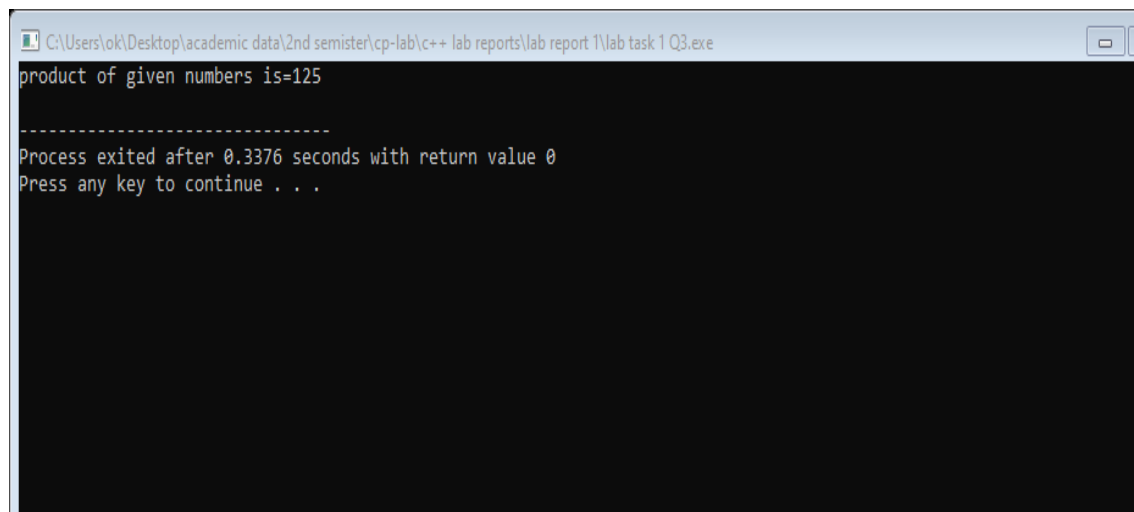
Write a program to multiply three numbers ($5 \times 5 \times 5 =$) and display its product.



The screenshot shows a C++ IDE window titled "C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1 Q3.cpp - [Executing] - Dev-C++ 5.11". The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. The toolbar contains various icons for file operations and execution. The compiler is set to "TDM-GCC 4.9.2 64-bit Release". The project is "lab task 1 Q3.cpp". The code is as follows:

```
1 //Write a program to multiply three numbers (5x5x5=) and display its product.
2 #include <iostream>
3 using namespace std;
4 int main()
5 {
6     int a=5,b =5,c=5,product;
7     product=a*b*c;
8     cout<<"product of given numbers is"<<product<<endl;
9     return 0;
10 }
```

Task 03 screenshot



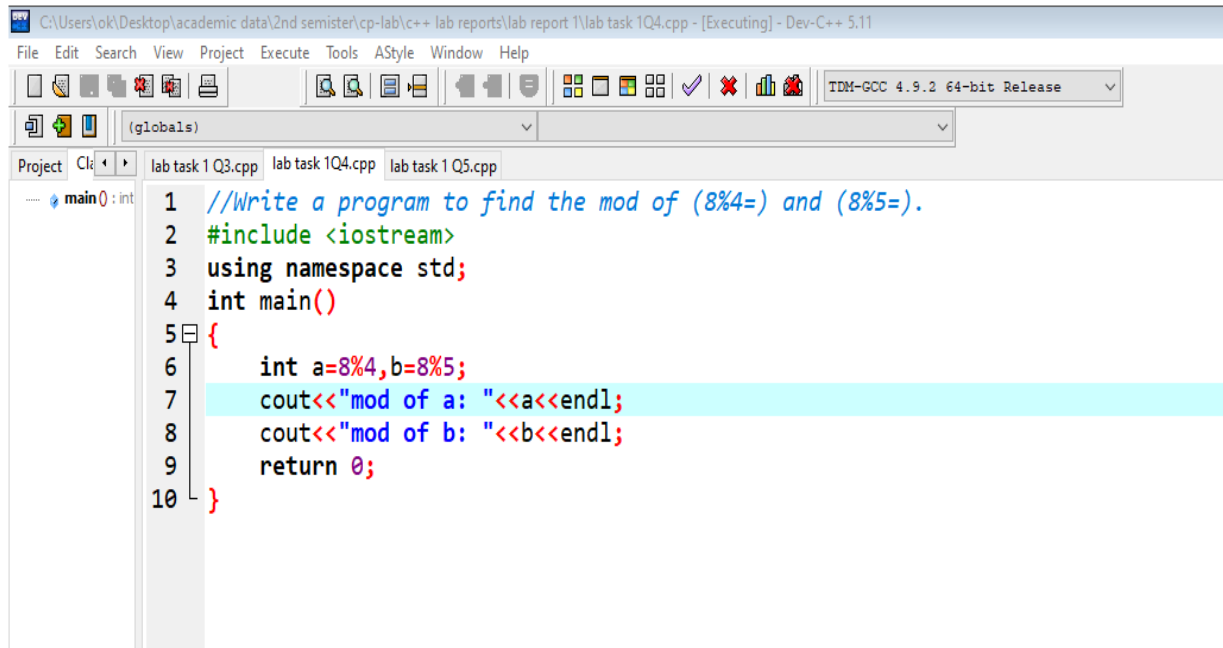
The screenshot shows the output of the program in a console window titled "C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1 Q3.exe". The output is:

```
product of given numbers is=125
-----
Process exited after 0.3376 seconds with return value 0
Press any key to continue . . .
```

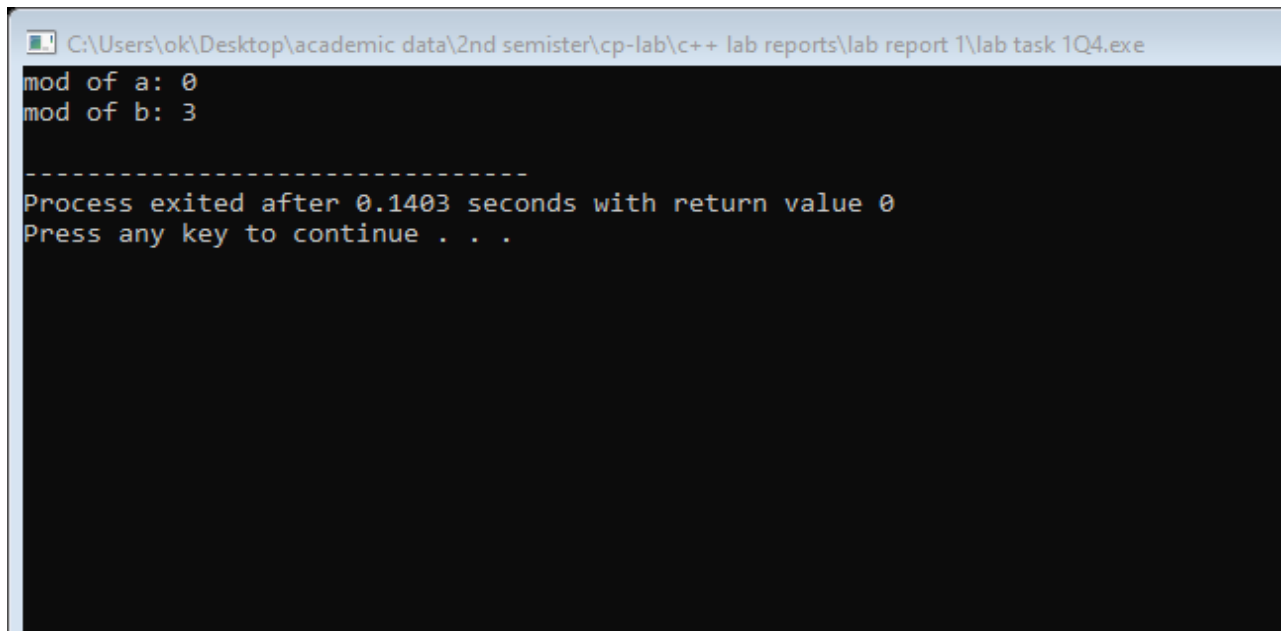
Output

Task 05:

Write a program to find the mod of $(8\%4=)$ and $(8\%5=)$.



```
C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1Q4.cpp - [Executing] - Dev-C++ 5.11
File Edit Search View Project Execute Tools AStyle Window Help
(globals)
Project Clk lab task 1 Q3.cpp lab task 1Q4.cpp lab task 1 Q5.cpp
main0 : int
1 //Write a program to find the mod of (8%4=) and (8%5=).
2 #include <iostream>
3 using namespace std;
4 int main()
5 {
6     int a=8%4,b=8%5;
7     cout<<"mod of a: "<<a<<endl;
8     cout<<"mod of b: "<<b<<endl;
9     return 0;
10 }
```

Task 04 screenshot

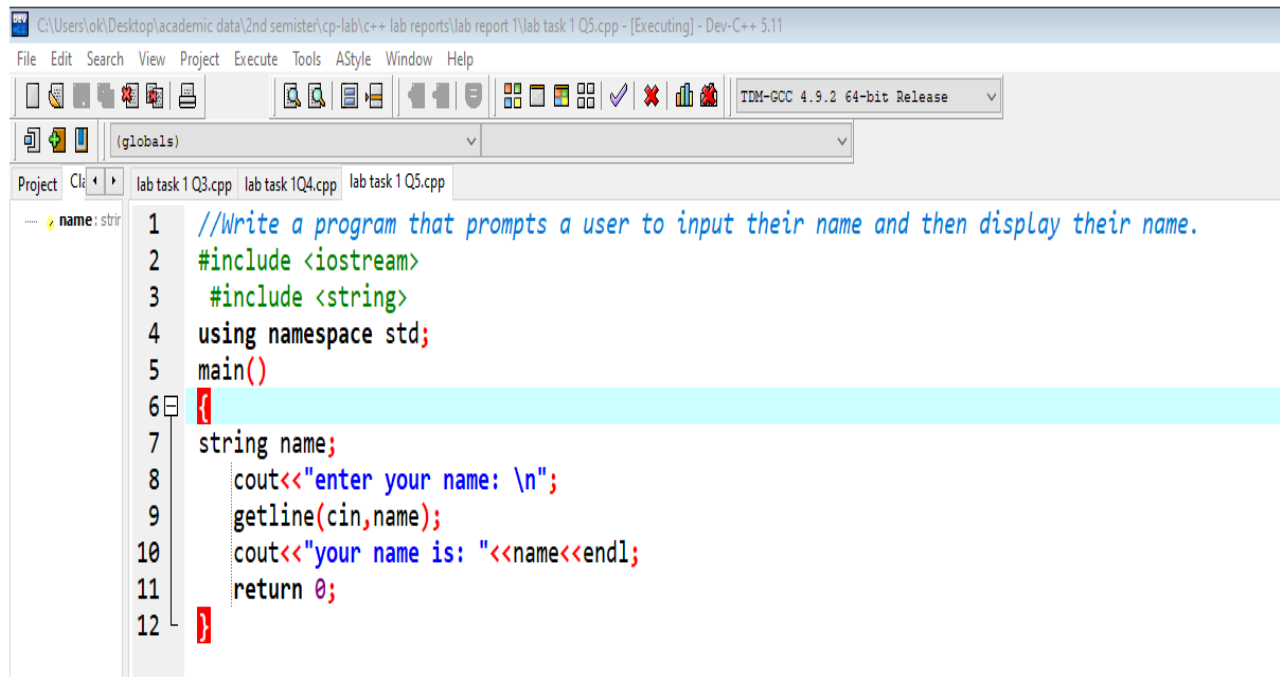
```
C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1Q4.exe
mod of a: 0
mod of b: 3

-----
Process exited after 0.1403 seconds with return value 0
Press any key to continue . . .
```

Output

Task 05:

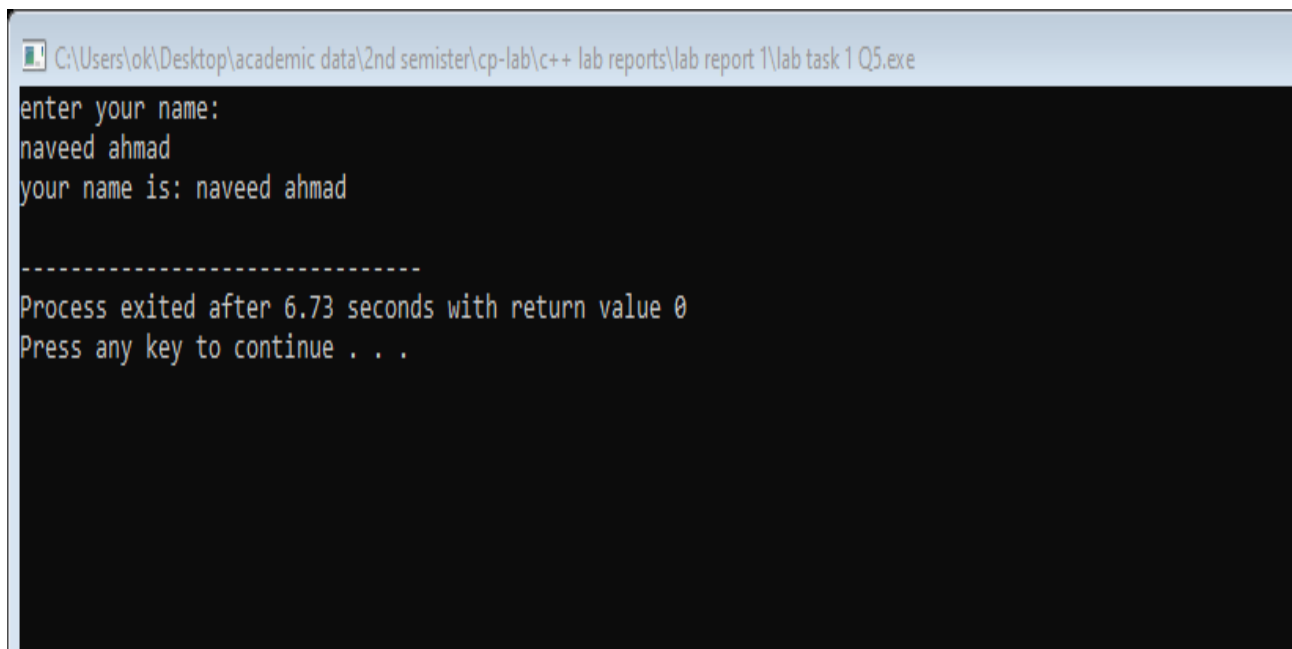
Write a program that prompts a user to input their name and then display their name



The screenshot shows a C++ IDE window titled "C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1 Q5.cpp - [Executing] - Dev-C++ 5.11". The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. The toolbar contains various icons for file operations and execution. The compiler is set to "TDM-GCC 4.9.2 64-bit Release". The project explorer on the left shows a project named "lab task 1" with files "lab task 1 Q3.cpp", "lab task 1 Q4.cpp", and "lab task 1 Q5.cpp". The main editor displays the following C++ code:

```
1 //Write a program that prompts a user to input their name and then display their name.
2 #include <iostream>
3 #include <string>
4 using namespace std;
5 main()
6 {
7     string name;
8     cout<<"enter your name: \n";
9     getline(cin,name);
10    cout<<"your name is: "<<name<<endl;
11    return 0;
12 }
```

Task 05 screenshot



The screenshot shows the execution of the program. The window title is "C:\Users\ok\Desktop\academic data\2nd semester\cp-lab\c++ lab reports\lab report 1\lab task 1 Q5.exe". The output is as follows:

```
enter your name:
naveed ahmad
your name is: naveed ahmad

-----
Process exited after 6.73 seconds with return value 0
Press any key to continue . . .
```

Output

LAB RUBRICS: (Circuits & Systems-I Lab)

Criteria & Point Assigned	Outstanding 4	Acceptable 3	Considerable 2	Below Expectations 1
Attendance and Attentiveness in Lab PLO10	Attended in proper Time and attentive in Lab	Attended in proper Time but not attentive in Lab	Attended late but attentive in Lab	Attended late not attentive in Lab
Equipment / Instruments Selection and Operation PLO1, PLO2, PLO3, PLO5,	Right selection and operation of appropriate equipment and instruments to perform experiment.	Right selection of appropriate equipment and instruments to perform experiment but with minor issues in operation	Needs guidance for right selection of appropriate equipment and instruments to perform experiment and to overcome errors in operation	Cannot appropriately select and operate equipment and instruments to perform experiment.
Result or Output/ Completion of target in Lab PLO9,	100% target has been completed and well Formatted.	75% target has been Completed and well formatted.	50% target has Been completed but not well formatted.	None of the outputs are correct
Overall, Knowledge PLO10,	Demonstrates excellent knowledge of lab	Demonstrates good knowledge of lab	Has partial idea about the Lab and procedure followed	Has poor idea about the Lab and procedure followed
Attention to Lab Report PLO4,	Submission of Lab Report in Proper Time i.e. in next day of lab., with proper Documentation.	Submission of Lab Report in proper time but not with proper Documentation.	Late Submission with proper Documentation.	Late Submission Very poor documentation