

***Department of Artificial Intelligence and Multimedia Gaming  
Fundamentals***

***of Programming (Fall-2025)***

***LAB No. 03***

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Section: D

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LAB No. 03

## Task 01 A:

Print out the following output by using appropriate escape sequences in your Program:

Code:

## Output:

## Task: 1 B

The screenshot shows the Dev-C++ IDE interface. The title bar reads "C:\Users\faisal computer\Desktop\task 1 A.cpp - Dev-C++ 5.11". The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help. The toolbar has various icons for file operations. The status bar at the bottom says "TDM-GCC 4.9.2 64-bit Release". The code editor window is titled "[\*] task 1 A.cpp" and contains the following C++ code:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     cout<<"I've said,\"save your notebook,\"so let's do it!"|
5     return 0;
6 }
```

## Output:

The terminal window shows the output of the program. It displays the string "I've said," save your notebook, "so let's do it!" followed by a dashed line, the process exit message, and a prompt to press any key.

```
I've said,"save your notebook,"so let's do it!
-----
Process exited after 0.3076 seconds with return value 0
Press any key to continue . . . ■
```

## Task 1 C:

### Code:

The screenshot shows the Dev-C++ IDE interface. The title bar reads "C:\Users\faisal computer\Desktop\task 1 B.cpp - Dev-C++ 5.11". The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, Help. The toolbar has various icons for file operations. The status bar at the bottom says "TDM-GCC 4.9.2 64-bit Release". The code editor window is titled "[\*] task 1 B.cpp" and contains the following C++ code:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     cout<<"\"\\WARNING!///\" ";
5     return 0;
6 }
```

## Output:

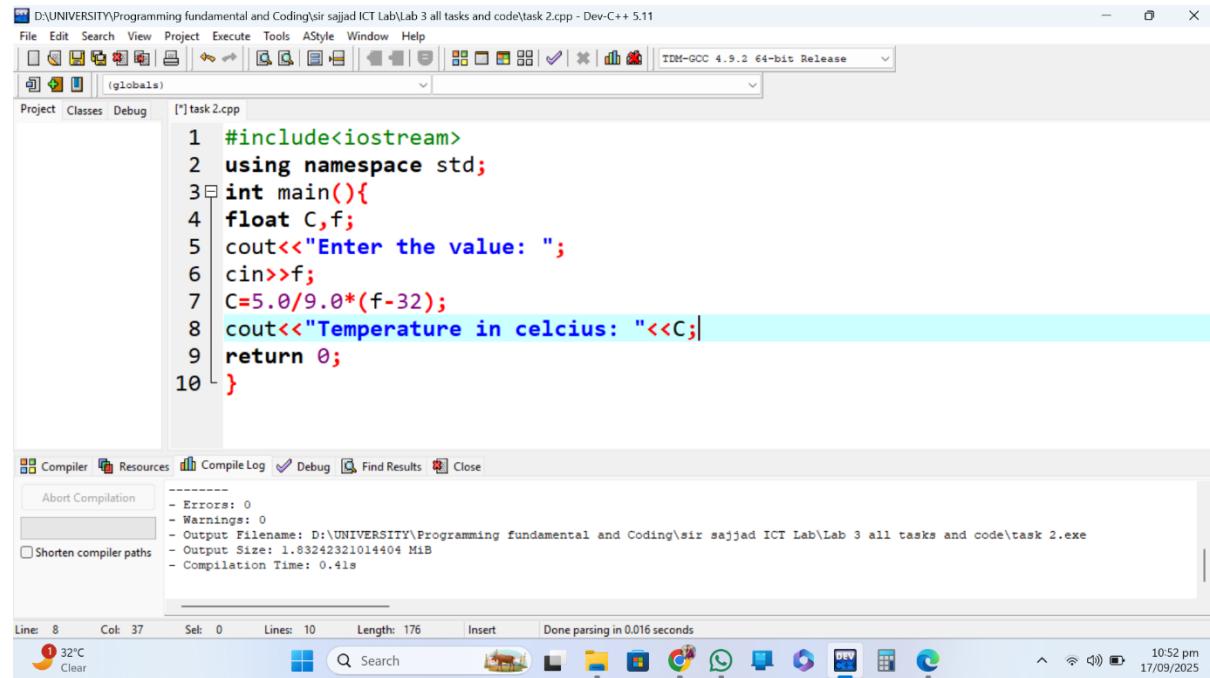
The terminal window shows the output of the program. It displays the string "\WARNING!///" followed by a dashed line, the process exit message, and a prompt to press any key.

```
"\\WARNING!///"
-----
Process exited after 0.292 seconds with return value 0
Press any key to continue . . . ■
```

## Task 02

Write a C++ program to convert temperature from Fahrenheit to Celsius degrees.

Code:



The screenshot shows the Dev-C++ IDE interface. The main window displays the following C++ code:

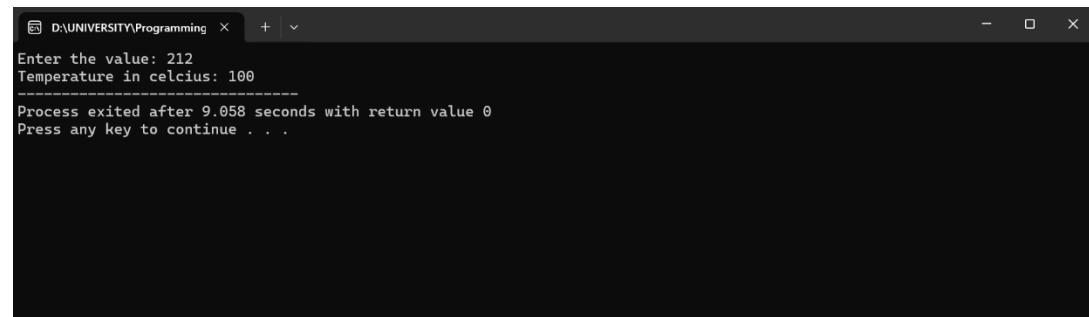
```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     float C,f;
5     cout<<"Enter the value: ";
6     cin>>f;
7     C=5.0/9.0*(f-32);
8     cout<<"Temperature in celcius: "<<C;
9     return 0;
10 }
```

The code performs the conversion from Fahrenheit to Celsius using the formula  $C = \frac{5}{9} \times (F - 32)$ . The output line is highlighted in light blue. Below the code editor is the Compiler Log window, which shows the following compilation results:

```
-----
- Errors: 0
- Warnings: 0
- Output Filename: D:\UNIVERSITY\Programming\sir sajjad ICT Lab\Lab 3 all tasks and code\task 2.exe
- Output Size: 1.83242321014404 MiB
- Compilation Time: 0.41s
```

The status bar at the bottom indicates the current time as 10:52 pm and the date as 17/09/2025.

Output:



The screenshot shows a terminal window with the following output:

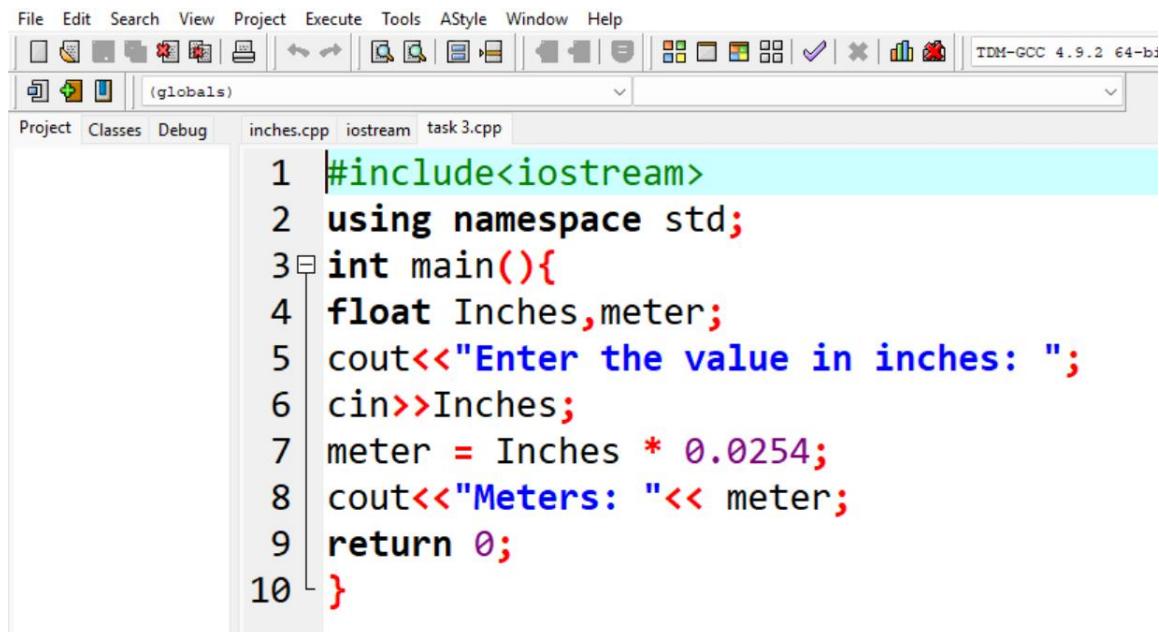
```
D:\UNIVERSITY\Programming> Enter the value: 212
Temperature in celcius: 100
-----
Process exited after 9.058 seconds with return value 0
Press any key to continue . . .
```

The user enters the value 212, and the program outputs the converted value 100. The process exits after 9.058 seconds.

### Task 03:

Write a C++ program that takes a number in inches and converts it into meters.

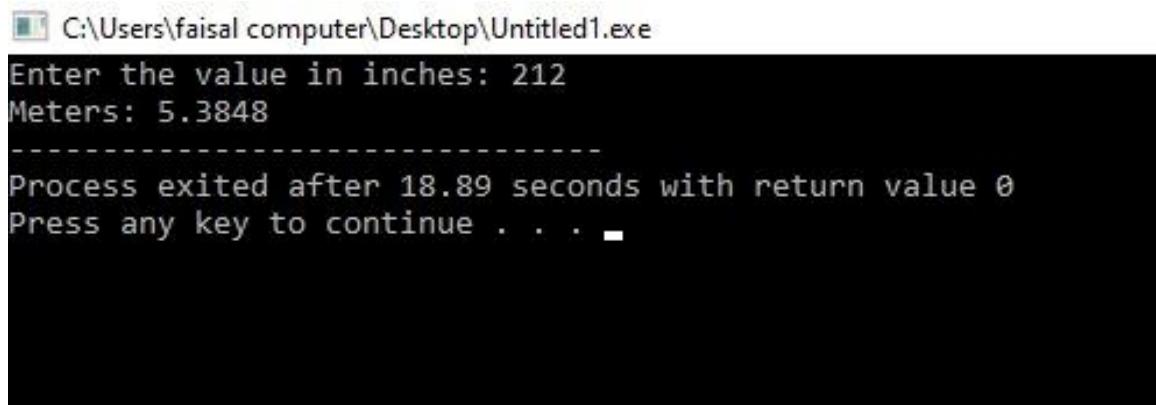
### Code:



The screenshot shows a software interface for a C++ compiler. The menu bar includes File, Edit, Search, View, Project, Execute, Tools, AStyle, Window, and Help. Below the menu is a toolbar with various icons. The title bar indicates "TDM-GCC 4.9.2 64-bit". The main window has tabs for Project, Classes, Debug, inches.cpp, iostream, and task 3.cpp. The code editor displays the following C++ code:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     float Inches,meter;
5     cout<<"Enter the value in inches: ";
6     cin>>Inches;
7     meter = Inches * 0.0254;
8     cout<<"Meters: "<< meter;
9     return 0;
10 }
```

### Output:



The terminal window shows the command to run the program and its output. The program asks for an input value in inches and then prints the equivalent value in meters.

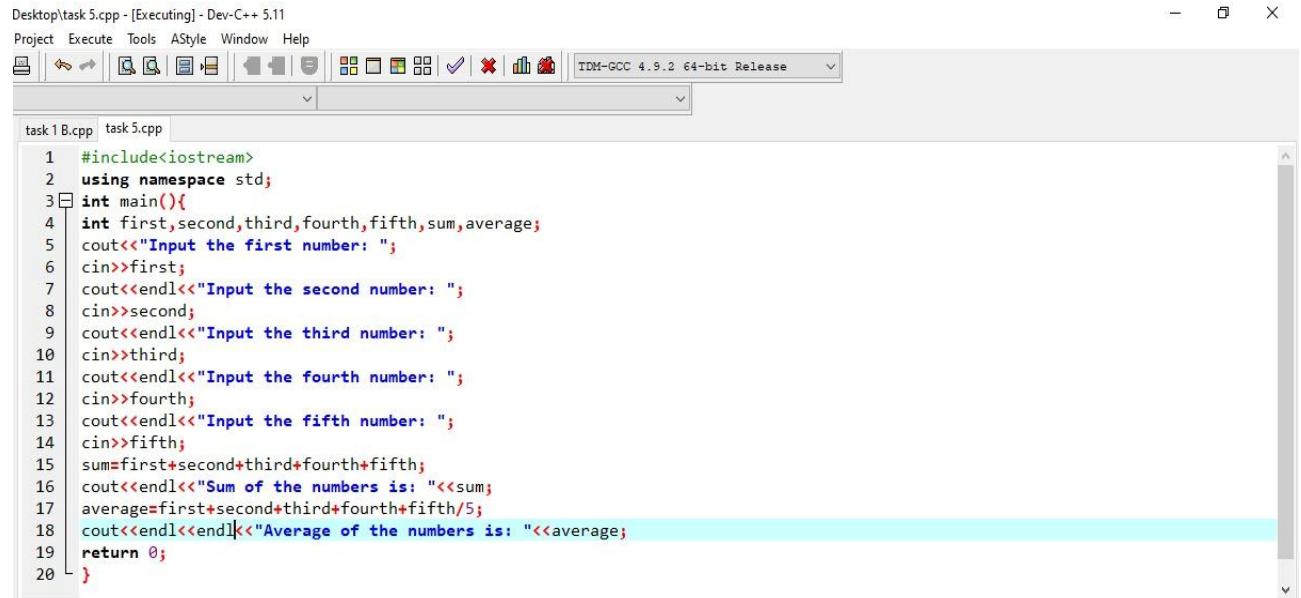
```
C:\Users\faisal computer\Desktop\Untitled1.exe
Enter the value in inches: 212
Meters: 5.3848
-----
Process exited after 18.89 seconds with return value 0
Press any key to continue . . .
```

## Task 04

Write a program in C++ to compute quotient and remainder.

Sample Output:

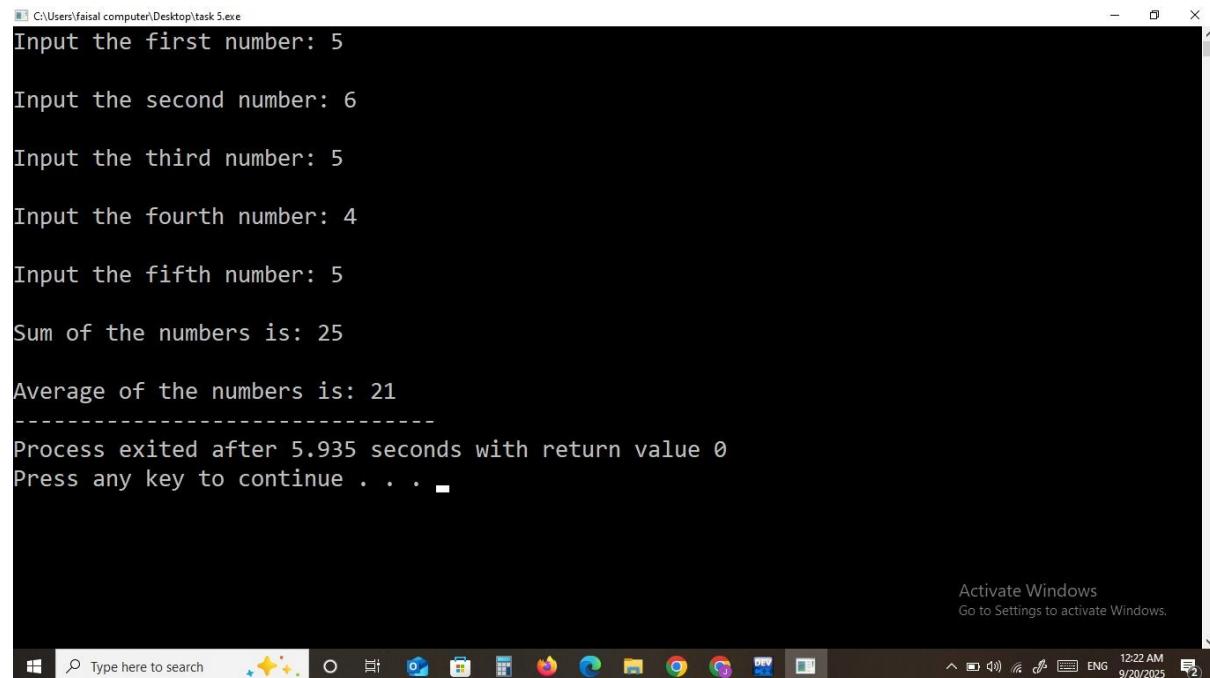
Code:



The screenshot shows the Dev-C++ IDE interface. The title bar reads "Desktop\task 5.cpp - [Executing] - Dev-C++ 5.11". The menu bar includes Project, Execute, Tools, AStyle, Window, and Help. Below the menu is a toolbar with various icons. The main window displays two tabs: "task 1 B.cpp" and "task 5.cpp", with "task 5.cpp" currently selected. The code editor contains the following C++ code:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     int first,second,third,fourth,fifth,sum,average;
5     cout<<"Input the first number: ";
6     cin>>first;
7     cout<<endl<<"Input the second number: ";
8     cin>>second;
9     cout<<endl<<"Input the third number: ";
10    cin>>third;
11    cout<<endl<<"Input the fourth number: ";
12    cin>>fourth;
13    cout<<endl<<"Input the fifth number: ";
14    cin>>fifth;
15    sum=first+second+third+fourth+fifth;
16    cout<<endl<<"Sum of the numbers is: "<<sum;
17    average=first+second+third+fourth+fifth/5;
18    cout<<endl<<endl<<"Average of the numbers is: "<<average;
19    return 0;
}
```

Output:



The screenshot shows a terminal window titled "C:\Users\faisal computer\Desktop\task 5.exe". The window displays the following output:

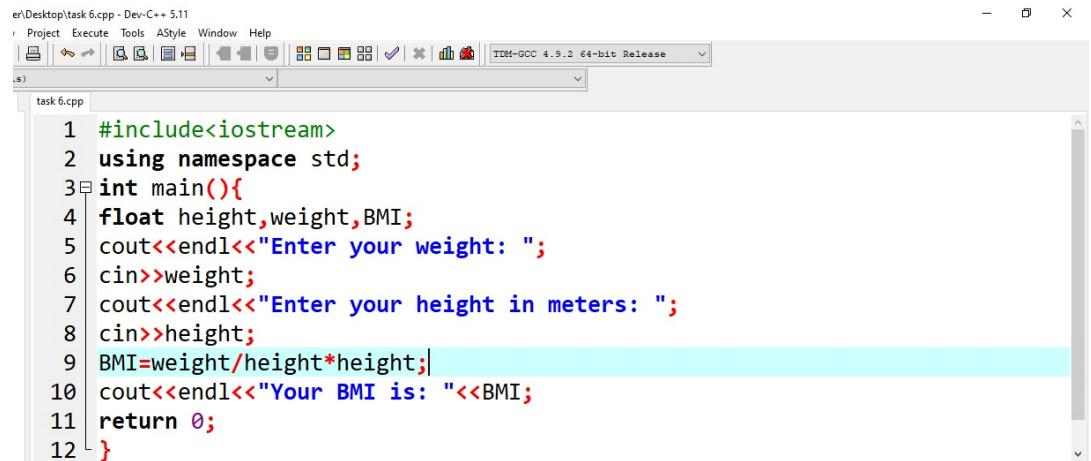
```
Input the first number: 5
Input the second number: 6
Input the third number: 5
Input the fourth number: 4
Input the fifth number: 5
Sum of the numbers is: 25
Average of the numbers is: 5.0
-----
Process exited after 5.935 seconds with return value 0
Press any key to continue . . .
```

In the bottom right corner of the terminal window, there is a message: "Activate Windows Go to Settings to activate Windows."

The taskbar at the bottom of the screen shows several icons, including the Start button, a search bar, and icons for File Explorer, Edge, and other applications. The system tray shows the date and time as "12:22 AM 9/20/2025".

## Task 6:

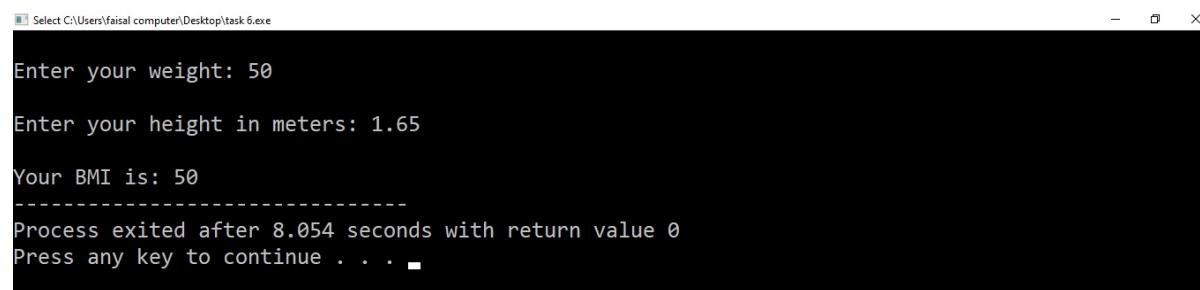
### Code:



The screenshot shows the Dev-C++ IDE interface. The title bar reads "C:\Desktop\task 6.cpp - Dev-C++ 5.11". The menu bar includes Project, Execute, Tools, AStyle, Window, and Help. The toolbar has various icons for file operations. The status bar at the bottom says "TDM-GCC 4.9.2 64-bit Release". The code editor window contains the following C++ code:

```
1 #include<iostream>
2 using namespace std;
3 int main(){
4     float height, weight, BMI;
5     cout<<endl<<"Enter your weight: ";
6     cin>>weight;
7     cout<<endl<<"Enter your height in meters: ";
8     cin>>height;
9     BMI=weight/height*height;
10    cout<<endl<<"Your BMI is: "<<BMI;
11    return 0;
12 }
```

### Output:



The screenshot shows a terminal window with the following output:

```
Select C:\Users\faisal computer\Desktop\task 6.exe
Enter your weight: 50
Enter your height in meters: 1.65
Your BMI is: 50
-----
Process exited after 8.054 seconds with return value 0
Press any key to continue . . .
```