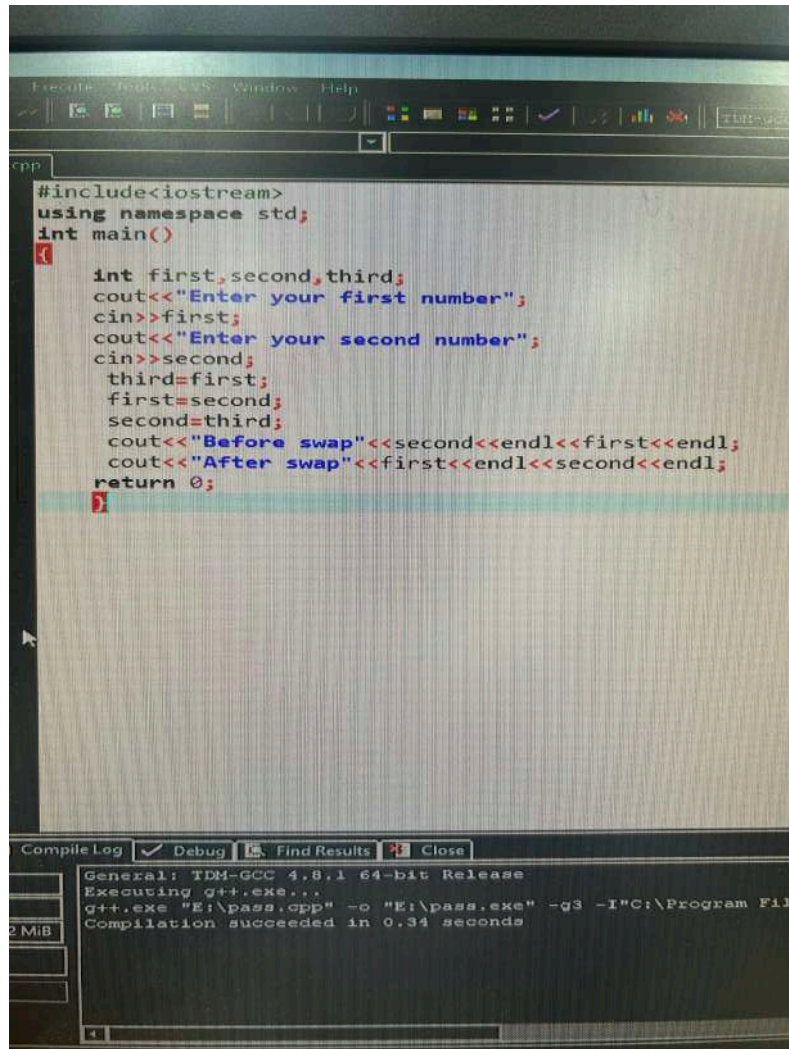


Name : Abdul Rafay. SAP ID :73765

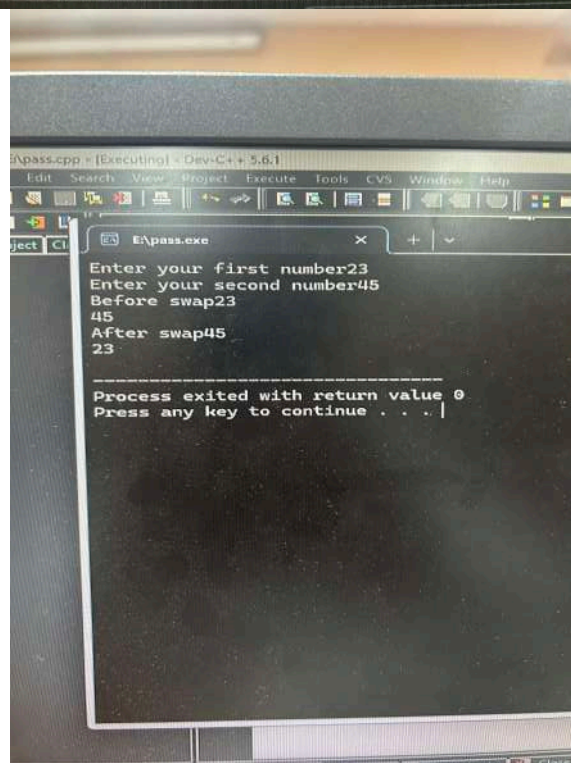
Q no 1) write a program that swap the values



```
#include<iostream>
using namespace std;
int main()
{
    int first,second,third;
    cout<<"Enter your first number";
    cin>>first;
    cout<<"Enter your second number";
    cin>>second;
    third=first;
    first=second;
    second=third;
    cout<<"Before swap"<<second<<endl<<first<<endl;
    cout<<"After swap"<<first<<endl<<second<<endl;
    return 0;
}
```

Compile Log

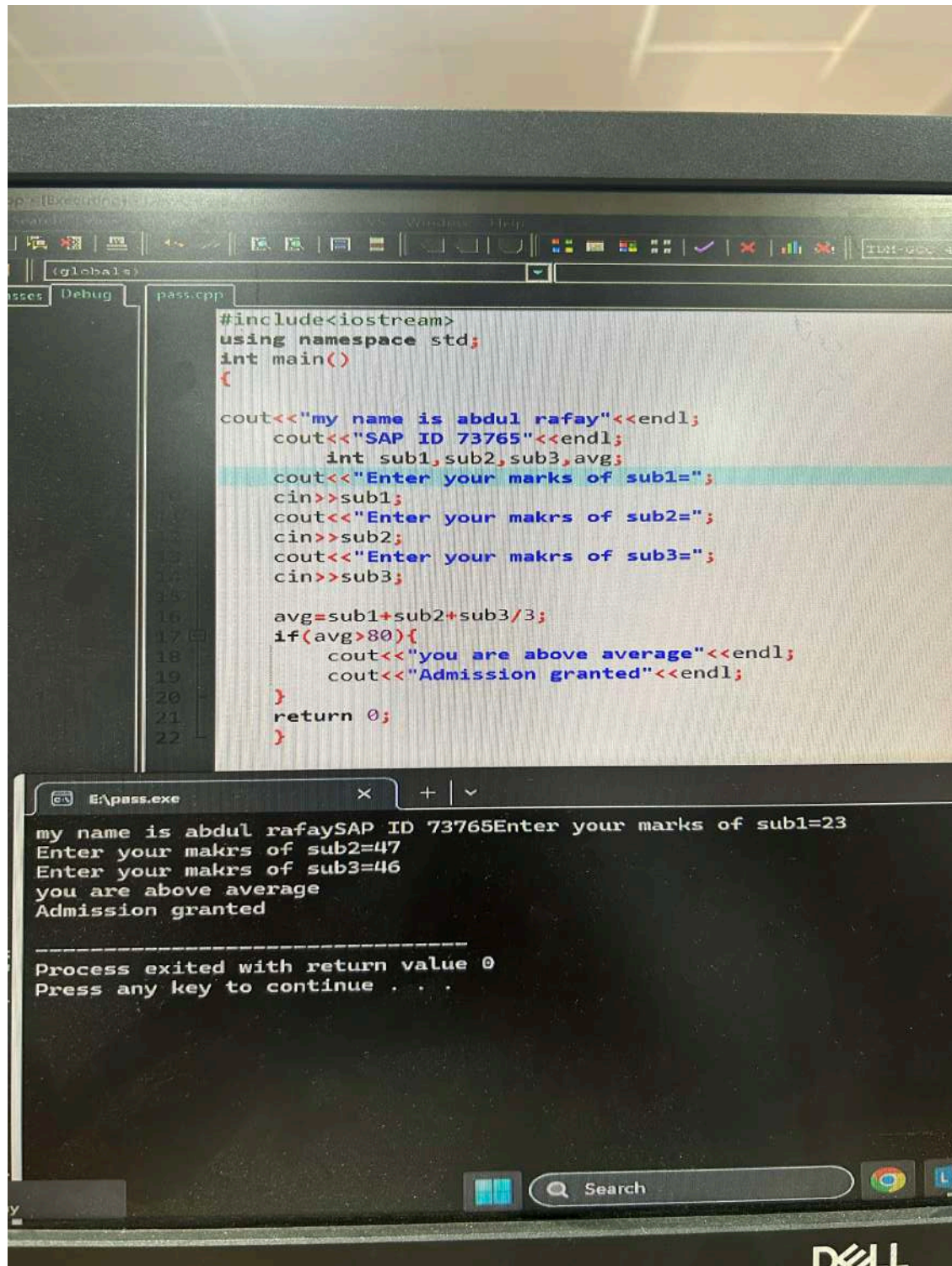
General: TDM-GCC 4.8.1 64-bit Release
Executing g++.exe...
g++.exe "E:\pass.cpp" -o "E:\pass.exe" -g3 -I"C:\Program Files..."
Compilation succeeded in 0.34 seconds



```
E:\pass.cpp - [Executing] - Dev-C++ 5.6.1
Enter your first number23
Enter your second number45
Before swap23
45
After swap45
23

Process exited with return value 0
Press any key to continue . . .
```

Q no 2) Write a program that input marks of three subjects, if the average of marks is more than 80 , it display two messages "You are above standard" and "Admission Granted"



The image shows a screenshot of a computer screen displaying a C++ program in Visual Studio and its execution output in a console window.

Visual Studio Editor (pass.cpp):

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"my name is abdul rafay"<<endl;
    cout<<"SAP ID 73765"<<endl;
    int sub1,sub2,sub3,avg;
    cout<<"Enter your marks of sub1=";
    cin>>sub1;
    cout<<"Enter your makrs of sub2=";
    cin>>sub2;
    cout<<"Enter your makrs of sub3=";
    cin>>sub3;

    avg=sub1+sub2+sub3/3;
    if(avg>80){
        cout<<"you are above average"<<endl;
        cout<<"Admission granted"<<endl;
    }
    return 0;
}
```

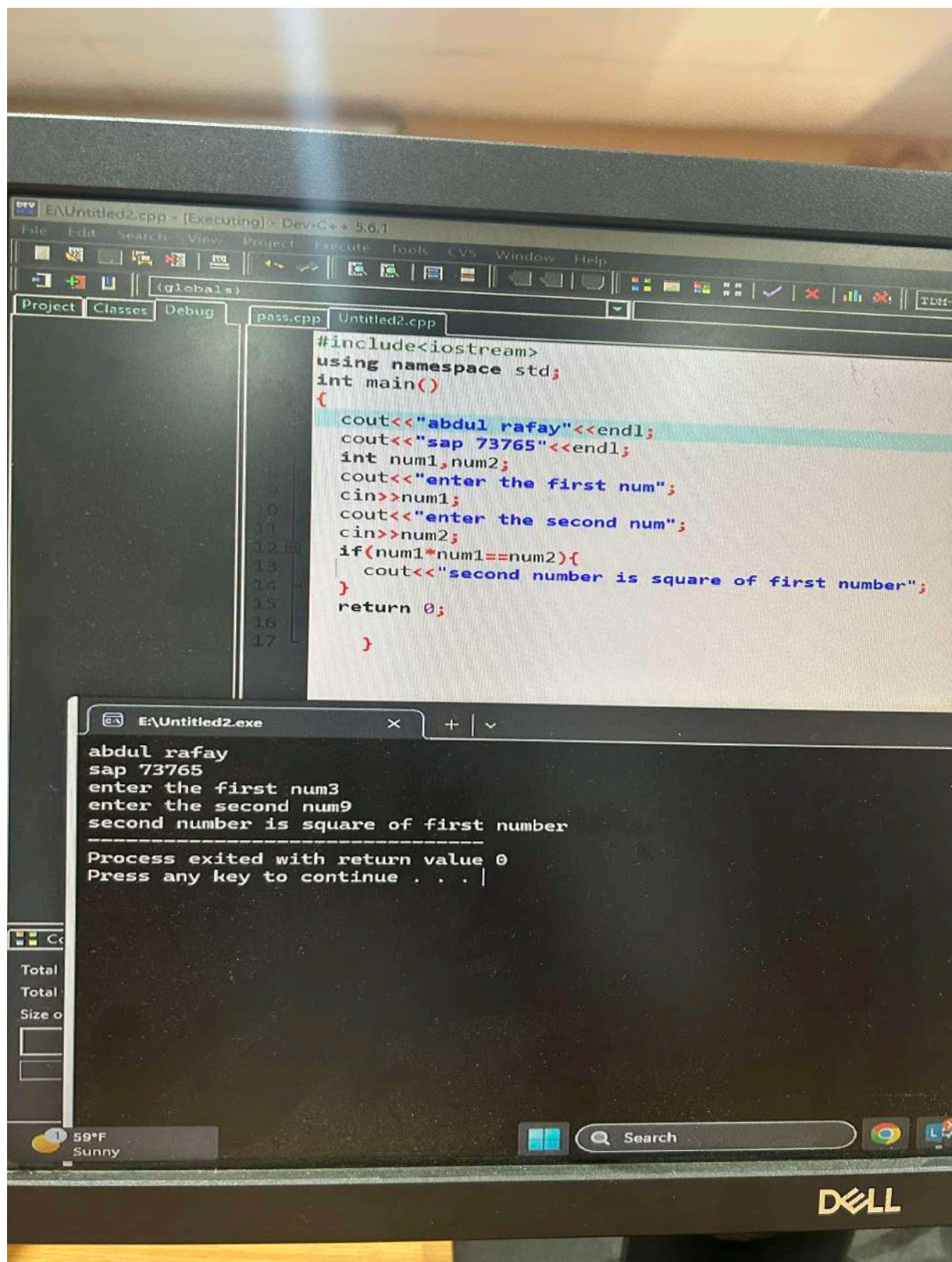
Console Window (E:\pass.exe):

```
my name is abdul rafaySAP ID 73765Enter your marks of sub1=23
Enter your makrs of sub2=47
Enter your makrs of sub3=46
you are above average
Admission granted

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

The console output shows the program's execution with the input marks for three subjects (23, 47, 46) and the resulting messages: "you are above average" and "Admission granted". The process exited with a return value of 0.

Q no 3) Write a program that input two numbers and finds if second number is square of first number



The image shows a computer monitor with a Dev-C++ IDE window and a terminal window. The IDE window displays a C++ program that takes two numbers as input and checks if the second number is the square of the first. The terminal window shows the program's execution, where the user has entered '73765' for the first number and '9' for the second number, resulting in the output 'second number is square of first number'.

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"abdul rafay"<<endl;
    cout<<"sap 73765"<<endl;
    int num1,num2;
    cout<<"enter the first num";
    cin>>num1;
    cout<<"enter the second num";
    cin>>num2;
    if(num1*num1==num2){
        cout<<"second number is square of first number";
    }
    return 0;
}
```

abdul rafay
sap 73765
enter the first num3
enter the second num9
second number is square of first number

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

Q NO 4) Write a program that input a number and find weather the number is even or odd

main.cpp	Output
<pre>1 #include<iostream> 2 using namespace std; 3 int main() 4 { 5 cout<<"NAME= ABDUL RAFAY"<<endl; 6 cout<<"SAP ID 73765"<<endl; 7 8 int num; 9 cout<<"Enter the number= "; 10 cin>>num; 11 if(num % 2==0){ 12 cout<<"The given number is even"<<endl; 13 }else{ 14 cout<<"The given number is odd"<<endl; 15 } 16 return 0; 17 }</pre>	<pre>NAME= ABDUL RAFAY SAP ID 73765 Enter the number= 482 The given number is even === Code Execution Successful ===</pre>

Q NO 5)Write a program that input a number and determine it is positive , negative or 0

main.cpp	Output
<pre>1 #include<iostream> 2 using namespace std; 3 int main() 4 { 5 cout<<"NAME= ABDUL RAFAY"<<endl; 6 cout<<"SAP ID 73765"<<endl; 7 8 int num; 9 cout<<"Enter the number = "; 10 cin>>num; 11 if(num > 0){ 12 cout<<"the number is positive"; 13 }else if (num < 0){ 14 cout<<"the is negative"; 15 }else{ 16 cout<<"the num is zero"; 17 } 18 return 0; 19 } 20</pre>	<pre>NAME= ABDUL RAFAY SAP ID 73765 Enter the number = 2 the number is positive === Code Execution Successful ===</pre>

Q NO 6) Write a program that input three numbers and display maximum number.

main.cpp	Output
<pre>1 #include <iostream> 2 using namespace std; 3 4 int main() { 5 cout<<"NAME= ABDUL RAFAY"<<endl; 6 cout<<"SAP ID 73765"<<endl; 7 8 int num1, num2, num3,max; 9 10 cout << "Enter three numbers: "; 11 cin >> num1 >> num2 >> num3; 12 13 if (num1 >= num2 && num1 >= num3) { 14 max = num1; 15 } 16 else if (num2 >= num1 && num2 >= num3) { 17 max = num2; 18 } 19 else { 20 max = num3; 21 } 22 23 cout << "The maximum number is: " << max << endl; 24 25 return 0; 26 } 27</pre>	<pre>NAME= ABDUL RAFAY SAP ID 73765 Enter three numbers: 23 45 34 The maximum number is: 45 === Code Execution Successful ===</pre>

