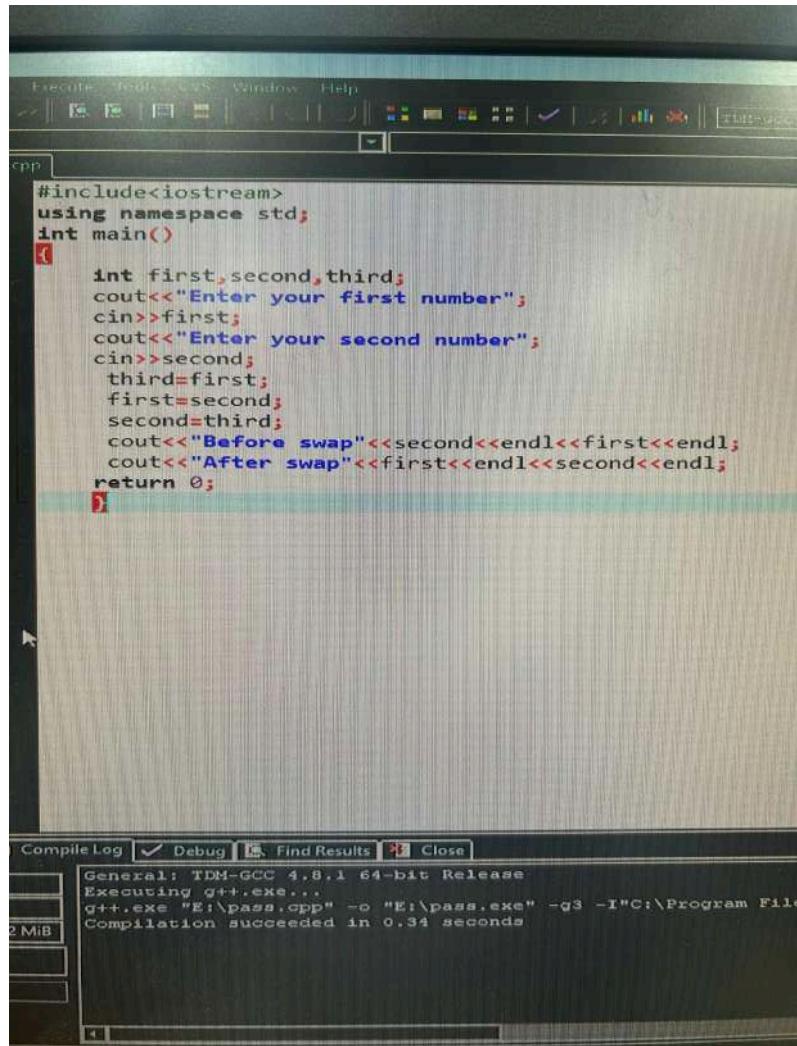


Name : Abdul Rafay. SAP ID :73765

Q no 1) write a program that swap the values

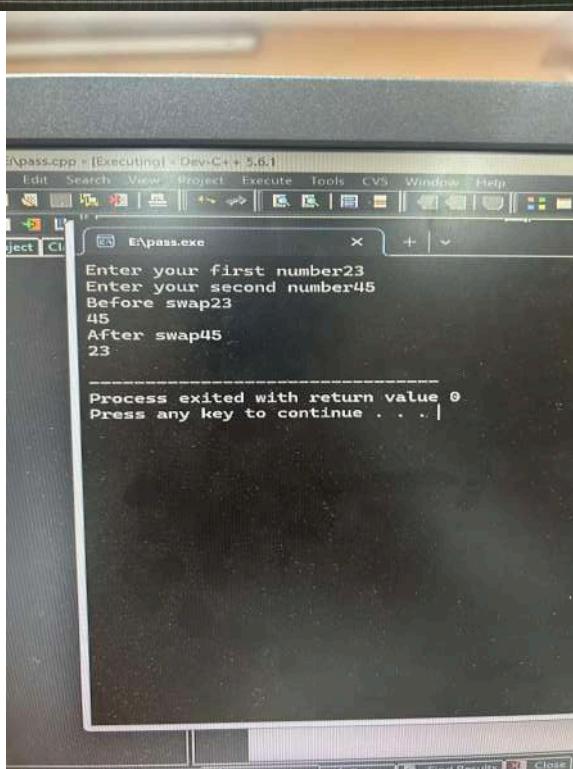


The screenshot shows the Dev-C++ IDE interface. The code editor window contains the following C++ program:

```
#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;
}
```

Below the code editor is the 'Compile Log' window, which displays the compilation process:

```
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 File
Compilation succeeded in 0.34 seconds
```



The screenshot shows the terminal window of the Dev-C++ IDE displaying the execution of the program. The output is:

```
E:\pass.cpp = [Executing] - Dev-C++ 5.6.1
Edit Search View Project Execute Tools CVS Window Help
Project Cl E:\pass.exe x + v
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 computer monitor displaying a code editor and a terminal window. The code editor is running Microsoft Visual Studio, showing a file named 'pass.cpp' with the following content:

```
#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 marks of sub2=";
    cin>>sub2;
    cout<<"Enter your marks of sub3=";
    cin>>sub3;

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

The terminal window below the code editor shows the execution of the program 'E:\pass.exe'. The output is:

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

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

The monitor is positioned on a desk, and the background shows a window with a yellow tint.

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

The image shows a Dell laptop screen with a C++ development environment and a terminal window.

IDE (Dev-C++ 5.6.1):

- Project: Untitled2
- File: pass.cpp
- Content:

```
#include<iostream>
using namespace std;
int main()
{
    cout<<"abdurafay" << 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;
}
```

Terminal Window:

```
E:\Untitled2.exe
abdurafay
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 . . .
```

Laptop Status Bar:

- Total
- Total
- Size 0
- 59°F Sunny
- DELL

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

main.cpp	  	Run	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>		NAME= ABDUL RAFAY SAP ID 73765 Enter the number= 482 The given number is even ==== Code Execution Successful ===	

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

main.cpp	  	Run	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>		NAME= ABDUL RAFAY SAP ID 73765 Enter the number = 2 the number is positive ==== Code Execution Successful ===	

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

main.cpp	   Share 	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 }</pre>	NAME= ABDUL RAFAY SAP ID 73765 Enter three numbers: 23 45 34 The maximum number is: 45 ==== Code Execution Successful ===	

