

Name:- Absas Ahmed.

SAP ID:- 72374.

Subject:- Programming Fundamentals.

QNO:1:- Write a program that input two numbers, swap the values and then display them?

Ans:-

```
#include <iostream>
```

```
using namespace std;
```

```
int main()
```

```
{
```

```
    int first, second, third;
```

```
    cout << "first num = ";
```

```
    cin >> first;
```

```
    cout << "second num = ";
```

```
    cin >> second;
```

```
    cin >> Third;
```

```
    third = first;
```

```
    first = second;
```

```
    second = third;
```

```
    cout << "value after swapping is " << endl;
```

```
    cout << "value of first num = " << first << endl;
```

```
    cout << "value of second num = " << second << endl;
```

```
    return 0;
```

```
}
```

Q No 2:- write a program that inputs marks of three subjects, if average of marks is more than 80. it display two message "you are above standard" and "Admission Granted".

Ans:-

```
#include <iostream>
using namespace std;
int main ()
{
    int math, comp, eng;
    double average;
    cout << "Enter num of math = ";
    cin >> math;
    cout << "Enter num of comp = ";
    cin >> comp;
    cout << "Enter num of eng = ";
    cin >> eng;
    avg = math + comp + eng / 3;
    if (avg > 80)
        cout << "you are above standard" << endl;
    cout << "Admission Granted" << endl;
    return 0;
}
```

Q No 3:-

Next page.

QNO3:- Write a program that input two numbers and find if second number is square of first number?

Ans:-

```
#include <iostream>
using namespace std;
int main ()
{
    int a, b;
    cout << "Enter value of a = ";
    cin >> a;
    cout << "Enter value of b = ";
    cin >> b;
    if (b == a*a)
        return 0;
}
```

QNO4:- Write a program that input a number and find whether the number is even or odd.

Ans:-

```
#include <iostream>
using namespace std;
int main()
{
    int a;
    cout << "Enter value of a = ";
    cin >> a;
    if (a % 2 == 0)
```

```
cout << "The value is even=" << endl;
cout << "The value is odd=" << endl;
return 0;
}
```

Ques:- write a program that input a number
and determine it is positive, negative or 0?

```
Ans:- #include <iostream>
using namespace std;
int main()
{
    int num;
    cout << "Enter a num=";
    cin >> num;
    if (num > 0);
        cout << "Num is positive" << endl;
    if (num <= 0);
        cout << "Num is negative" << endl;
    if (num == 0);
        cout << "Num is zero" << endl;
    return 0;
}
```

Q No: 6. Write a program that inputs three numbers and display maximum numbers?

Ans #include <iostream>

using namespace std;

int main()

{

 int a, b, c;

 cout << "Enter value of a = " {

 cin >> a;

 cout << "Enter value of b = " {

 cin >> b;

 cout << "Enter value of c = " {

 cin >> c;

 if (a > b and a > c)

 cout << "Value of a is maximum" << endl;

 if (b > a and b > c)

 cout << "Value of b is maximum" << endl;

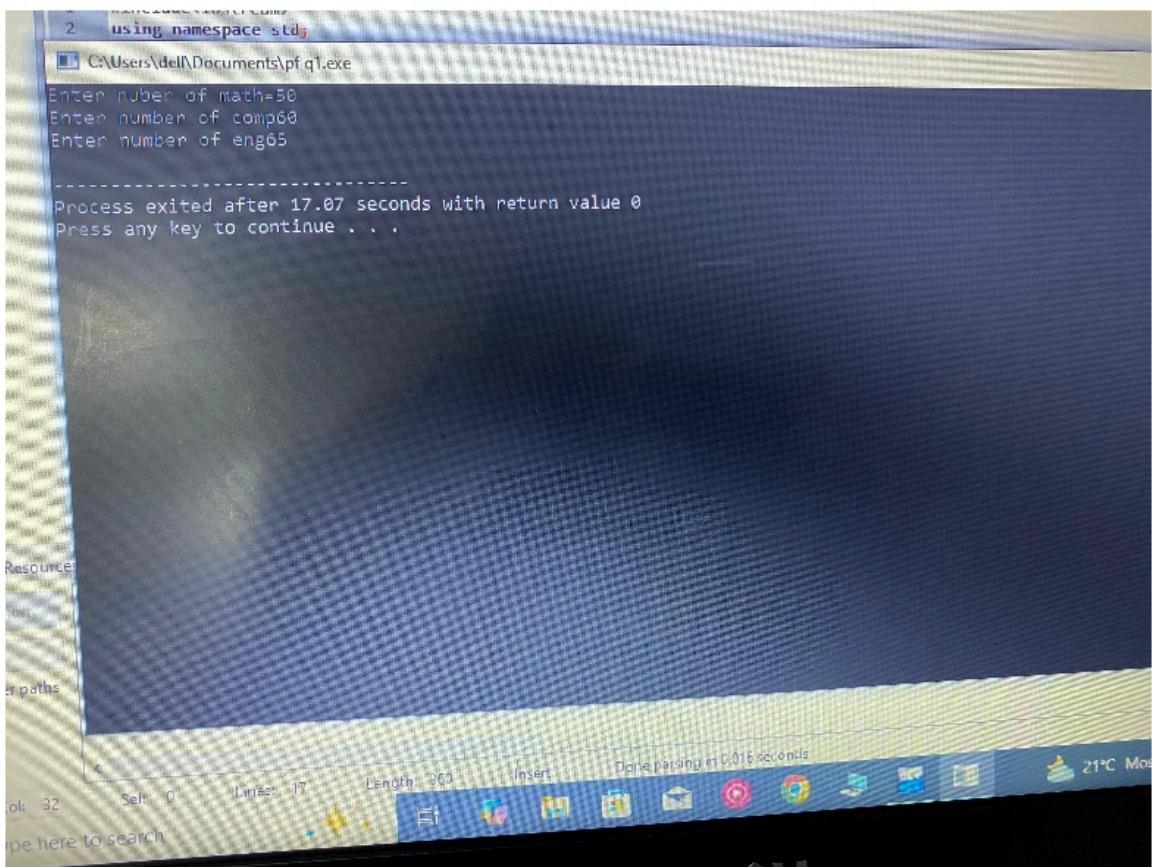
 if (c > b and c > a)

 cout << "Value of c is maximum" << endl;

 return 0;

}

```
2 using namespace std;
C:\Users\dell\Documents\pf q1.exe
Enter number of math=50
Enter number of comp60
Enter number of eng65
-----
Process exited after 17.07 seconds with return value 0
Press any key to continue . . .
```



C:\Users\dell\Documents\pf q1.cpp - [Executing] - Dev-C++ 5.11

File Search View Project Execute Tools AStyle Window Help

(globals)

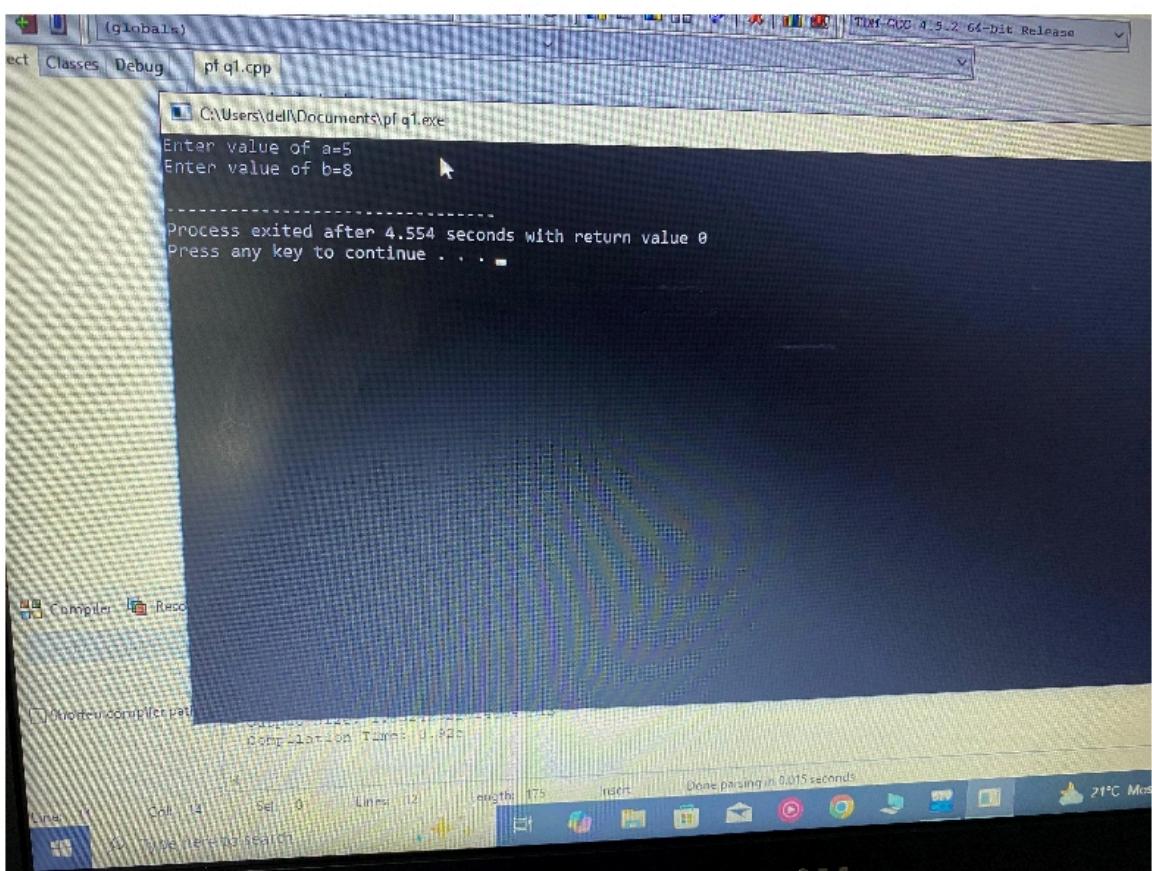
Classes C:\Users\dell\Documents\pf q1.exe

```
Enter value of a=10
The value is even

-----
Process exited after 2.966 seconds with return value 0
Press any key to continue . . .
```

Compiler

C:\Users\dell\Documents\pf q1.exe



The screenshot shows a Dev-C++ IDE window running on a Dell laptop. The code in the editor swaps two integers, 5 and 6, and prints their values before and after the swap. The output window displays the results and a standard Windows-style message at the end.

```
First number=5
Second number=6
9
Value after swaping is
The value of first number=6
The value of second number=6

Process exited after 6.401 seconds with return value 0
Press any key to continue . . .
```

The status bar at the bottom of the IDE indicates the following information:

- Line: 17
- Col: 12
- Set: 0
- Lines: 11
- Length: 382
- Icons: 1
- Done printing 0 documents

The taskbar at the bottom of the screen shows various icons, including the Start button, a search bar, and icons for File Explorer, Mail, and other applications. The weather widget on the right shows "21°C Mostly cloudy".

C:\Users\dell\Documents\pf q1.cpp - [Executing] - Dev-C++ 5.11

Edit Search View Project Execute Tools AStyle Window Help

C:\Users\dell\Documents\pf q1.exe

```
Enter value of a=10
Enter value of b=12
Enter value of c=14
value of c is maximum
```

```
-----
Process exited after 10.67 seconds with return value 0
Press any key to continue . . .
```

Comp

ments\pf q1.cpp - [Executing] - Dev-C++ 5.11

File Project Execute Tools AStyle Window Help

bals)

ug pf q1.cpp

```
1 #include<iostream>
2 using namespace std;
```

C:\Users\dell\Documents\pf q1.exe

Enter a num=55
Num is positive

Process exited after 5.091 seconds with return value 0
Press any key to continue . . .

sources

aths

This screenshot shows the Dev-C++ 5.11 IDE interface. The menu bar includes File, Project, Execute, Tools, AStyle, Window, and Help. The toolbar contains various icons for file operations like Open, Save, and Build. The left sidebar shows project components like 'bals)', 'ug', and 'sources'. The main workspace displays the code for 'pf q1.cpp' which includes `#include<iostream>` and `using namespace std;`. Below the code, the terminal window shows the output of the program: 'C:\Users\dell\Documents\pf q1.exe', 'Enter a num=55', 'Num is positive', and a final message 'Process exited after 5.091 seconds with return value 0'. The status bar at the bottom shows 'aths'.