

## Answer on Question#37635 - Programming, C++

1. Write a c++ program to read two integer numbers and pass them to a function to return the largest common divisor?

**Solution.**

```
#include <iostream>
#include <string>
#include <stdlib.h>
#include <stdio.h>

using namespace std;

int commonDivisor(int a, int b);
int main(int argc, char* argv[])
{
    int a,b;
    cout <<"Enter 1 number:"<<endl;
    cin>>a;
    cout <<"Enter 2 number:"<<endl;
    cin>>b;
    cout <<endl<<"Common divisor:"<<endl;
    cout <<commonDivisor(a,b)<<endl;

    system("pause");
    return 0;
}

int commonDivisor(int a, int b)
{
    int j=0;
    if(a>b)
    {
        for(int i=a; i>0; i--)
        {
            if(a%i==0 && b%i==0)
                {j=i; break;}
        }
    }
    else
    {
        for(int i=b; i>0; i--)
        {
            if(a%i==0 && b%i==0)
                {j=i; break;}
        }
    }

    return j;
}
```

```
d:\DataBase\QQ\Debug\QQ.exe
Enter 1 number:
15
Enter 2 number:
10
Common divisor:
5
```