

Practical-7(b)

Code:

```
//program to calculate GCD of two numbers
```

```
#include <iostream>
```

```
using namespace std;
```

```
int gcd(int n1 , int n2)    //defining function
```

```
{
    int gc;
    for(int i=1 ; i<=n1 && i<=n2 ; i++)
    {
        if(n1%i==0 && n2%i==0)           //checking for the common factors
        {
            gc=i;    //storing the common factors in gc
        }
    }
    return gc;           //returning gcd of the numbers
}
```

```
int main()
```

```
{
    int n1 , n2 ;           //defining variables
    cout << "Enter the first number::";
    cin >> n1;
    cout << "Enter the second number::";           //taking the numbers from the user
    cin >> n2;
    cout << "The GCD of the numbers you entered::" << gcd(n1 , n2);    //printing the final result
    return 0;
}
```

Output:-

Command Prompt

```
Microsoft Windows [Version 10.0.19042.685]
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C:\Users\harsh>cd desktop

C:\Users\harsh\Desktop>cd Practicales

C:\Users\harsh\Desktop\Practicales>g++ Practical-7.cpp -o Practical-7.exe

C:\Users\harsh\Desktop\Practicales>Practical-7.exe
Enter the first number::30
Enter the second number::250
The GCD of the numbers you entered::10
C:\Users\harsh\Desktop\Practicales>_
```

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