CHANDIGARH UNIVERSITY
UNIVERSITY INSTITUTE OF ENGINEERING
DEPARTMENT OF COMPUTER SCIENCE & ENGINEERING

Submitted By:	Submitted To:
Subject Name	Design And Analysis of Algorithms Lab
Section / Group	20BCS_WM_902 B
Subject Code	20CSP-312
Branch	CSE
Semester	5th

Lab Index

Sr.No	Program	Date	Evaluation				Sign
			LW (12)	VV (10)	FW (8)	Total (30)	
1.							
2.							
3.							
4.							
5.							
6.							
7.							
8.							
9.							
10							

NAME :Rajdeep Jaiswal   **SUBJECTCODE:20CSP-312**

UID: 20BCS2761   **SECTION: 20BCS_WM_902 B**

SUBJECTNAME: Design and Analysis of Algorithms Lab

Aim:

Code and analyze to compute the greatest common divisor of
two numbers.

Sol:

Code:

```cpp
#include <iostream>
using namespace std;

int gcd(int a, int b)
{
   if (b == 0)
   {
      return a;
   }
else    {
      return (gcd(b, a % b));
   };
}

int main() {
   cout<<"<----------------------
>"<<endl;    int num1,num2;
   cout<<"Enter the numbers: "<<endl;
   cin>>num1>>num2;
   cout<<"The GCD is: "<<gcd(num1,num2);
return 0;
}
```
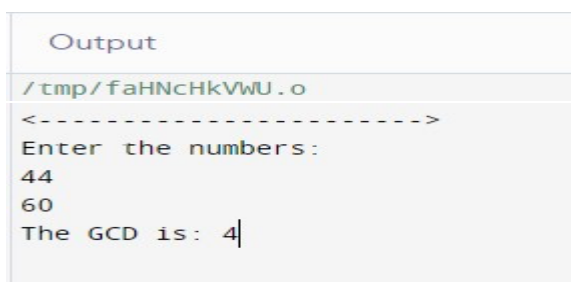
Output:

```
   Output

/tmp/faHNcHkVWU.o

<---------------------->
Enter the numbers:
44
60
The GCD is: 4
```