

Experiment No. 6x6.2 Name:

```

#include <stdio.h>
int GCD (int num1, int num2)
{
    if (num2 == 0)
        return num1;
    else
        return GCD (num2, num1 % num2);
}

int main()
{
    int a, b, result;
    printf ("Enter two integers : ");
    scanf ("%d %d", &a, &b);
    if (a<0) a = -a;
    if (b<0) b = -b;

    if (a==0 && b==0)
        printf ("GCD is not defined for both number
being zero . \n");
    return 0;
}

result = GCD (a,b);
printf ("\n-----\n");
printf ("GCD of %d and %d \n", a,b,result)
printf ("\n-----\n");
return 0;
}

```

Teacher's Signature:

Online Linux Terminal | Linux Pi | Your First Linux Lab | Quick Start | Online C Compiler - Programiz | Courseplan C Language 2025 -

programiz.com/c-programming/online-compiler/

Never struggle with DSA again.  
Learn with interactive visuals

Try Now

Programiz PRO

main.c

```
1 #include <stdio.h>
2 int GCD(int num1, int num2) {
3     if (num2 == 0)
4         return num1;
5     else
6         return GCD(num2, num1 % num2);
7 }
8 int main() {
9     int a, b, result;
10    printf("Enter two integers: ");
11    scanf("%d %d", &a, &b);
12
13    if (a < 0) a = -a;
14    if (b < 0) b = -b;
15
16    if (a == 0 && b == 0) {
17        printf("GCD is not defined for both numbers being zero.\n");
18        return 0;
19    }
20    result = GCD(a, b);
21    printf("\n-----\n");
22    printf("GCD of %d and %d = %d\n", a, b, result);
23    printf("-----\n");
24
25    return 0;
26 }
```

Output

```
Enter two integers: 20 8
-----
GCD of 20 and 8 = 4
-----
== Code Execution Successful ==
```

Programiz PRO

Premium Courses by Programiz

Learn More

https://googleads.g.doubleclick.net/pcs/click?xai=AKAOjsuGy9Gv7Uhl3OmFbgpssVKch6Ccf...

6 AFG - BAN In 6 hours

Search

12:15 08-10-2025