Aim:

Write a C program to find GCD of two integer numbers using functions.

At the time of execution, the program should print the message on the console as:

```
Enter two integer numbers :
```

For example, if the user gives the **input** as :

```
Enter two integer numbers : 144 428
```

then the program should **print** the result as:

```
GCD of 144 and 428 : 4
```

Note: Write the function **gcdResult()** in FunctionsExample3a.c .

Source Code:

FunctionsExample3.c

```c
#include <stdio.h>
#include "FunctionsExample3a.c"
void main() {
    int num1, num2;
    printf("Enter two integer numbers : ");
    scanf("%d%d", &num1, &num2);
    printf("GCD of %d and %d : %d\n", num1, num2, gcdResult(num1, num2));
}
```

FunctionsExample3a.c

```c
int gcdResult(int n1,int n2);
int gcdResult(int n1,int n2)
{
    int i,gcd;
    for(i=1;i<=n1&&i<=n2;i++)
{
 //  check i //
    if(n1%i==0&&n2%i==0)
    gcd=i;
}
return gcd;
}
```

Execution Results - All test cases have succeeded!

Test Case - 1
User Output
Enter two integer numbers : 144 428

GCD of 144 and 428 : 4

Test Case - 2
User Output
Enter two integer numbers : 27 113
GCD of 27 and 113 : 1

Test Case - 3
User Output
Enter two integer numbers : 55 100
GCD of 55 and 100 : 5

Test Case - 4
User Output
Enter two integer numbers : 125 175
GCD of 125 and 175 : 25

Test Case - 5
User Output
Enter two integer numbers : 124 156
GCD of 124 and 156 : 4