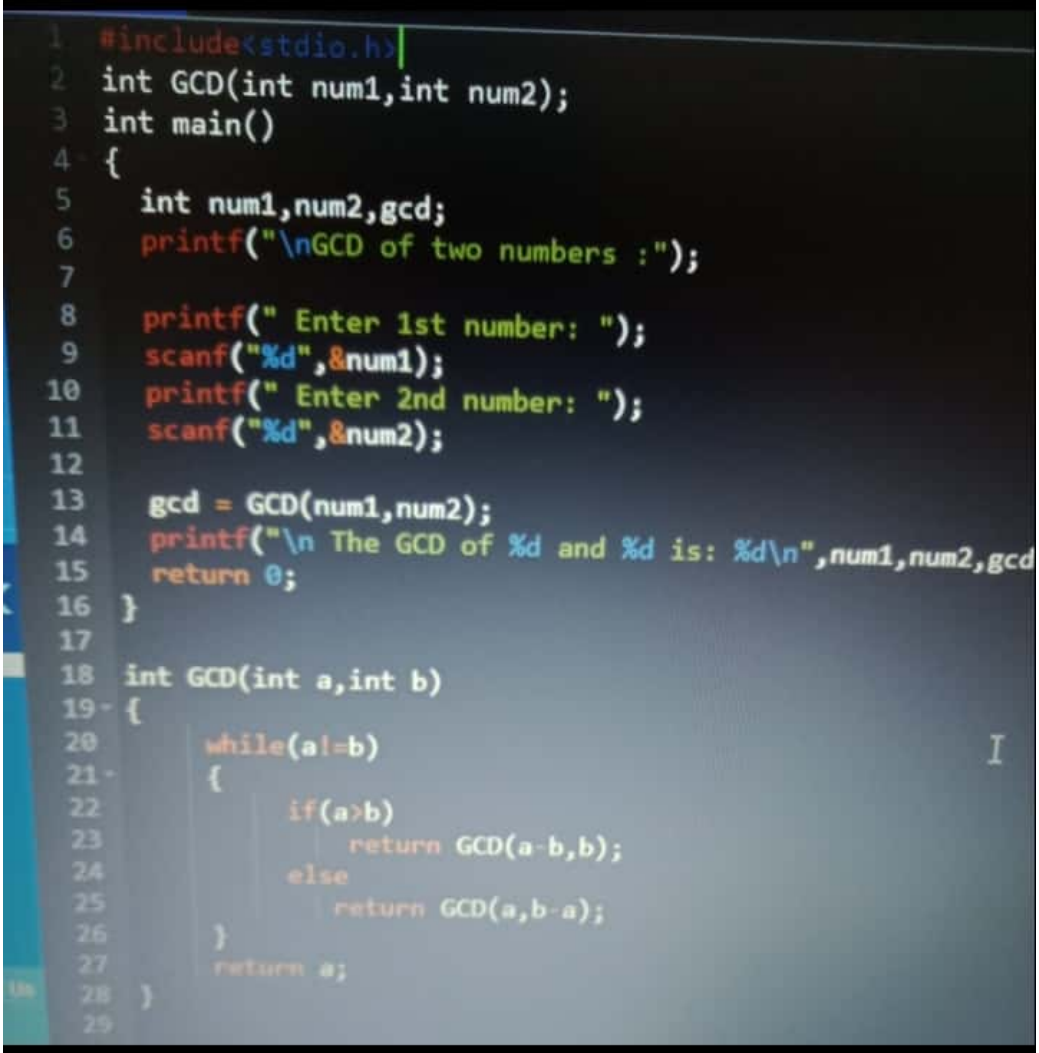
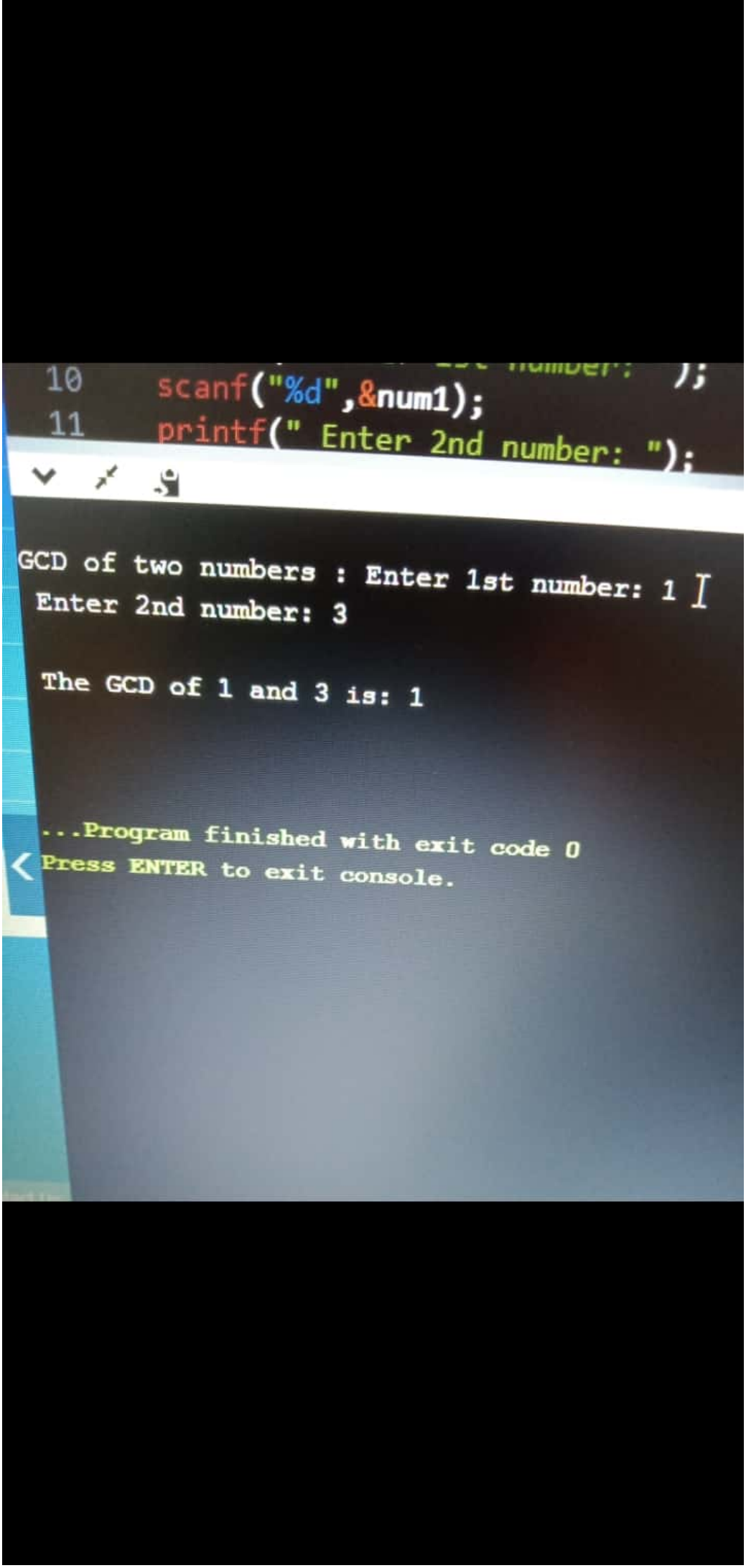


```c
#include<stdio.h>
int GCD(int num1,int num2);
int main()
{
  int num1,num2,gcd;
  printf("\nGCD of two numbers :");

  printf(" Enter 1st number: ");
  scanf("%d",&num1);
  printf(" Enter 2nd number: ");
  scanf("%d",&num2);

  gcd = GCD(num1,num2);
  printf("\n The GCD of %d and %d is: %d\n",num1,num2,gcd
  return 0;
}

int GCD(int a,int b)
{
     while(a!=b)
     {
          if(a>b)
              return GCD(a-b,b);
          else
              return GCD(a,b-a);
     }
     return a;
}
```



* Write a recursive program to find GCD of two numbers

```
#include<stdio.h>
int GCD (int num1, int num2);
int main()
{
int num1, num2, gcd;
Printf("\n GCD of two number : ");
Printf(" Enter 1st number: ");
Scanf ("%d", &num1);
Printf (" Enter 2nd number: ");
Scanf("%d", &num2);
gcd = GCD(num1, num2);
Printf("The GCD is %d: ", gcd);
return 0;
}
int GCD (int a, int b)
{
while(a!=b)
{
if(a>b)
return GCD(a-b, b);
else
return GCD(a, b-a);
}
return a;
}
```