Problem No: 8
Problem Name: Write a c program to find the GCD of two numbers using recursion.

Input	Output
2	2
4	
70	
100	10

Source Code:

```c
#include <stdio.h>
int gcd(int a, int b) {
    if (b == 0) {
        return a;
    } else {
        return gcd(b, a % b);
    }
}

int main() {
    int num1, num2;
    scanf("%d%d", &num1,&num2);
    printf("%d\n",gcd(num1, num2));

    return 0;
}
```

Result and Analysis:

This program takes two integers in subfunction called gcd and calls itself recursively in return. Finally when it is called in main function then it shows the result.