main.c

```c
1    #include <stdio.h>
2    int gcd(int m, int n)
3    {
4        if(n==0) return m;
5        if(m<n) return gcd(n,m);
6        return gcd(n,m%n);
7    }
8    int main()
9    {
10       int m,n,res;
11       printf("Enter m and n\n");
12       scanf("%d%d",&m,&n);
13       res=gcd(m,n);
14       printf("GCD of %d and %d is %d.",m,n,res);
15
16   }
```

```
> clang-7 -pthread -lm -o main main.c
> ./main
Enter m and n
2
4
GCD of 2 and 4 is 2.>
```

```c
main.c
1    #include <stdio.h>
2    int gcd(int m,int n)
3    {
4        int r;
5        do{
6            r=m%n;
7            m=n;
8            n=r;
9            return r;
10        } while(n!=0);
11   }
12   int main()
13   {
14        int m,n,res;
15        printf("Enter m and n\n");
16        scanf("%d%d",&m,&n);
17        res=gcd(m,n);
18        printf("The GCD is %d",res);
19
20   }
```

Console   Shell

```
> clang-7 -pthread -lm -o main main.c
> ./main
Enter m and n
4
6
The GCD is 4>
```