

GCD:

```
#include<stdio.h>
#include<math.h>
int gcd(int m,int n)
{
    if(n==0) return m;
    if(m<n) return gcd(n,m);
    else
        return gcd(n,m%n);
}
int main()
{
    int m, n, res;
    printf("Enter value of m and n\n");
    scanf("%d%d", &m, &n);
    res=gcd(m,n);
    printf("gcd(%d,%d)=%d\n",m,n,res);
}
```

OUTPUT:

```
User@PRATHIKSHA /c/ada lab
$ cd "/c/ada lab/" && gcc gcd.c -o gcd && "/c/ada lab/"gcd
Enter value of m and n
6 36
gcd(6,36)=6

User@PRATHIKSHA /c/ada lab
$ cd "/c/ada lab/" && gcc gcd.c -o gcd && "/c/ada lab/"gcd
Enter value of m and n
5 7
gcd(5,7)=1
```