**TERM WORK 1:**

Implement Euclids algorithm and consecutive integer checking algorithm for computing GCD of 2 given numbers m and n.

#include <stdio.h>

#include <stdlib.h>

int gcd(int m,int n)

{

int r;

while(n!=0)

{

r=m%n;

m=n;

n=r;

}

return m;

}

int cic(int m, int n) {

int t, r, g;

if (m == 0) return n;

if (n == 0) return m;

if (m > n) {

t = n;

} else {

t = m;

}

while (1) {

r = m % t;

if (r == 0) {

r = n % t;

if (r == 0) {

g = t;

break;

} else {

t--;

}

} else {

t--;

}

}

return g;

}

int main()

{

int m,n,r,r1;

printf("Enter 2 numbers to find GCD :");

scanf("%d %d",&m,&n);

r=gcd(m,n);

printf("The GCD of %d and %d using euclids algorithm is: %d\n",m,n,r);

r=cic(m,n);

printf("The GCD of %d and %d using consecutive integer checking is: %d\n",m,n,r);

return 0;

}