**3. Write a C program to find the GCD and LCM of given two numbers using**

**Euclid’s method.**

#include <stdio.h>

#include <stdlib.h>

int main()

{

int m,n,temp1,temp2,rem,gcd,lcm;

printf("Enter two integers m and n \n");

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

temp1=m;

temp2=n;

while(n!=0)

{

rem=m % n;

m=n;

n=rem;

}

gcd = m;

lcm = (temp1\*temp2) / gcd;

printf("The gcd of %d and %d is = %d\n", temp1, temp2, gcd); printf("The lcm of %d and %d is = %d", temp1, temp2, lcm);

return 0;

}

**4. Write a C program to print the prime numbers in a given range.**

#include <stdio.h>

#include <stdlib.h>

int main()

{

int sr,er,flag,i,j, c=0;

printf("enter the starting and ending range\n"); scanf("%d%d",&sr,&er); printf("prime numbers are\n");

for(i=sr;i<=er;i++)

{

flag=0;

for(j=2;j<=(i/2);j++)

{

if(i%j==0)

{

flag=1;

break;

} }

if(flag==0)

{

c++;

printf("%d\t",i);

}

}

if(c==0)

printf("\n\n NULL\n\nThere is no prime number with in the given range\n");

else

printf("\n\nThere are %d prime numbers within the given range\n", c); return 0;

}