**GCD - Recursion**

#include <stdio.h>

int gcd(int, int);

int main()

{

int n1, n2;

printf("Enter two positive integers: ");

scanf("%d %d", &n1, &n2);

printf("G.C.D of %d and %d is %d.", n1, n2, gcd(n1,n2));

return 0;

}

int gcd(int n1, int n2)

{

if (n2 != 0)

return gcd(n2, n1%n2);

else

return n1;

}

**LCM - Recursion**

#include<stdio.h>

int lcm(int,int);

int main(){

int a,b,l;

printf("Enter any two positive integers ");

scanf("%d%d",&a,&b);

l = lcm(a,b);

printf("LCM of two integers is %d",l);

return 0;

}

int lcm(int a,int b){

static int temp = 1;

if(temp % b == 0 && temp % a == 0)

return temp;

else

{

temp++;

lcm(a,b);

}

}

**Binary - Recursion**

#include<stdio.h>

void binary(long);

int main()

{

long n;

printf("Type a value : ");

scanf("%ld",&n);

binary(n);

return 0;

}

void binary(long n)

{

if(n>1)

binary(n/2);

printf("%ld",n%2);

}

**Sum of Digits - Recursion**

#include<stdio.h>

int sod(int);

int main()

{

int i;

printf(" Type any value : ");

scanf("%d",&i);

printf("Sum of digit : %d",sod(i));

return 0;

}

int sod(int n)

{

if(n<1)

return 0;

return(n%10+sod(n/10));

}