**Write a program to enter a number and find factorial using function with argument and with return type**

**#include <stdio.h>**

**int factorial (int n);**

**void main()**

**{**

**int fact,n;**

**printf("Enter a number: ");**

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

**fact=factorial(n);**

**printf("Factorial of %d is %d",n,fact);**

**}**

**int factorial(int n)**

**{**

**int fact;**

**if(n==1)**

**{**

**return 1;**

**}**

**else**

**{**

**fact=n\*factorial(n-1);**

**}**

**return fact;**

**}**

**Write a program to fine the GCD and LCM of 2 numbers using functions with arguments and without return type and display them**

**#include <stdio.h>**

**void gcd (int a,int b);**

**void main()**

**{**

**int x,y;**

**printf("Enter 2 numbers: ");**

**scanf("%d%d",&x,&y);**

**gcd(x,y);**

**}**

**void gcd(int a,int b)**

**{**

**int rem=0,temp1=a,temp2=b;**

**do**

**{**

**rem=a/b;**

**a=b;**

**b=rem;**

**}**

**while(rem!=0);**

**printf("GCD is %d",a);**

**int lcm=(temp1\*temp2)/2;**

**printf("LCM is %d",lcm);**

**}**

**Write a program to take input from the user and find whether a number is palindrome or not using function without argument and with return type**

**#include <stdio.h>**

**int palindrome();**

**void main()**

**{**

**Int a=palindrome();**

**if(a==1)**

**printf("Palindrome");**

**else**

**printf("Not palindrome");**

**}**

**int palindrome()**

**{**

**int n,rem,rev=0,originaln;**

**printf("Enter a number: ");**

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

**originaln=n;**

**while(n!=0)**

**{**

**rem=n%10;**

**rev=rev\*10+rem;**

**n=n/10;**

**}**

**if(rev==originaln)**

**return 1;**

**else**

**return 0;**

**}**

**Write a program to fine whether a given number is prime or not using function without argument and without return type**

**#include <stdio.h>**

**int prime();**

**void main()**

**{**

**prime();**

**}**

**int prime()**

**{**

**int a,i,flag;**

**printf("Enter a number");**

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

**for(i=2;i<=a/2;i++)**

**{**

**flag=0;**

**if(a%i==0)**

**{**

**flag=1; break;**

**}**

**}**

**if(a==1)**

**printf("It is neither prime not composite");**

**else**

**{**

**if(flag==0)**

**printf("It is a prime number");**

**else**

**printf("It is not a prime number");**

**}}**