1. Write a program to calculate sum of first N natural numbers

**#include<stdio.h>**

**#include<conio.h>**

**int main()**

**{**

**int n,i,sum=0;**

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

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

**for(i=1;i<=n;i++)**

**{**

**sum=sum+i;**

**}**

**printf("%d",sum);**

**getch();**

**return 0;**

**}**

2. Write a program to calculate sum of first N even natural numbers.

**#include<stdio.h>**

**#include<conio.h>**

**int main()**

**{**

**int n,i,sum=0;**

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

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

**for(i=1;i<=n;i++)**

**{**

**sum=sum+2\*i;**

**}**

**printf("%d",sum);**

**getch();**

**return 0;**

**}**

3. Write a program to calculate sum of first N odd natural numbers

**main()**

**{**

**int x,sum=0;**

**{**

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

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

**int i=1;**

**while(i<=x)**

**{**

**sum=sum+(2\*i-1);**

**i++;**

**}**

**printf("%d",sum);**

**getch();**

**}**

**}**

4. Write a program to calculate sum of squares of first N natural numbers.

**#include<stdio.h>**

**#include<conio.h>**

**int main()**

**{**

**int x,i;**

**float sum=0;**

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

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

**for(i=1;i<=x;i++)**

**{**

**sum=sum+i\*i;**

**}**

**printf("%f",sum);**

**}**

5. Write a program to calculate sum of cubes of first N natural numbers

**#include<stdio.h>**

**#include<conio.h>**

**int main()**

**{**

**int x,i;**

**float sum=0;**

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

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

**for(i=1;i<=x;i++)**

**{**

**sum=sum+(i\*i\*i);**

**}**

**printf("%f",sum);**

**}**

6. Write a program to calculate factorial of a number.

**#include<stdio.h>**

**int main()**

**{**

**int x,i;**

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

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

**for(i=x-1;i>=1;i--)**

**{**

**x=x\*i;**

**}**

**printf("%d",x);**

**return 0;**

**}**

7. Write a program to count digits in a given number.

**#include<stdio.h>**

**#include<conio.h>**

**int main()**

**{**

**int x,remain,rev\_num=0;**

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

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

**while(x!=0)**

**{**

**remain=x%10;**

**rev\_num=rev\_num\*10+remain;**

**x=x/10;**

**}**

**printf("%d",rev\_num);**

**getch();**

**}**

**8. Write a program to check whether a given number is a Prime number or not.**

**#include<stdio.h>**

**#include<conio.h>**

**int main()**

**{**

**int x,i;**

**printf("enter a number\n");**

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

**for(i=2;i<=x-1;i++)**

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

**break;**

**if(i==x)**

**printf("%d is prime",x);**

**else**

**printf("%d is Not prime",x);**

**getch();**

**}**

9. Write a program to calculate LCM of two numbers.

**#include<stdio.h>**

**int main() {**

**int n1, n2, max;**

**printf("Enter two positive integers: ");**

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

**max = (n1 > n2) ? n1 : n2;**

**while (1) {**

**if ((max % n1 == 0) && (max % n2 == 0)) {**

**printf("The LCM of %d and %d is %d.", n1, n2, max);**

**break;**

**}**

**++max;**

**}**

**return 0;**

**}**

10. Write a program to reverse a given number.

**#include<stdio.h>**

**#include<conio.h>**

**int main()**

**{**

**int x,remain,rev\_num=0;**

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

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

**while(x!=0)**

**{**

**remain=x%10;**

**rev\_num=rev\_num\*10+remain;**

**x=x/10;**

**}**

**printf("%d",rev\_num);**

**getch();**

**}**