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

```
#include<stdio.h>
    int main()
    {
    int n,i=1,sum=0;

printf("Enter The value of N:");
    scanf("%d",&n);
    while(i<=n)
    {
       sum=sum+i;
       printf(" %d",sum);
       i=i+1;
    }}</pre>
```

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

```
#include<stdio.h>
    int main()
    {
    int n,i=2,sum=0;
printf("Enter even value of N:");
    scanf("%d",&n);
    while(i<=n)
    {
       sum=sum+i;
       printf(" %d",sum);
       i=i+2;}}</pre>
```

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

```
#include<stdio.h>
     int main()
     {
     int n,i=1,sum=0;

printf("Enter even value of N:");
     scanf("%d",&n);
     while(i<=n)
     {
        sum=sum+i;
        printf(" %d",sum);
     i=i+2;}}</pre>
```

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

```
#include<stdio.h>
    int main()
    {
    int i=1,n,sum=0;

printf("Enter the number first N natural square:");
    scanf("%d",&n);
    while(i<=n){
    sum=sum+i*i;
    printf(" %d",sum);
    i++;
    }}</pre>
```

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

```
#include<stdio.h>
    int main()

{
    int i=1,n,sum=0;

printf("Enter the number first N natural cube:");

    scanf("%d",&n);

    while(i<=n){
    sum=sum+i*i*i;

    printf(" %d",sum);

    i++;
    }
}</pre>
```

6. Write a program to calculate factorial of a number

```
#include<stdio.h>
        int main()
        {
        int n,i,fact=1;

printf("Enter the factorial number!:");
        scanf("%d",&n);
        for(i=1;i<=n;i++)
            fact=fact*i;;

        printf("%d",fact);
        return 0;}</pre>
```

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

```
#include<stdio.h>
    int main()
    {
    int a,count=0;
    printf("Enter aNumber:");
    scanf("%d",&a);
    while(a!=0)
     {
        a=a/10;
        count++;
        }
    printf("Number of digit is %d",count);
```

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

```
#include<stdio.h>
        int main()
            {
       int n,i,m=0;
printf("Enter a number:");
    scanf("%d",&n);
    for(i=2;i<n/2;i++)
            {
       if(n%i==0)
            {
          m=1;
         break;}
            }
        if(m==1)
   printf("not prime");
           else
     printf("prime");
        return 0;
            }
```

9. Write a program to calculate LCM of two numbers

```
#include<stdio.h>
         int main()
              {
          int a,b,i;
printf("Enter two number:");
  scanf("%d%d",&a,&b);
    for(i=1;i<=a*b;i++)
             {
   if(i%a==0&&i%b==0)
             {
           break;
             }
             }
   printf("LCM is %d",i);
         return 0;
             }
```

10. Write a program to reverse a given number

```
#include<stdio.h>
    int main()
    {
    int a,i,rem,rev=0;
printf("Enter a number:");
    scanf("%d",&a);
    while(a!=0)
    {
      rem=a%10;
      a=a/10;
      rev=rev*10+rem;
      }
    printf("%d",rev);
    }
```