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

```c
#include<stdio.h>
int main()
{
    int i,n,s=0;
    printf("enter any number\n");
    scanf("%d",&n);
    i=1;
    while(i<=n)
    {
        s=s+i;
        i++;
    }
    printf("sum is %d",s);
    return 0;
}
```

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

```c
#include<stdio.h>
int main()
{
    int i,n,s=0;
    printf("enter any number\n");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        s=s+i+i;
    }
    printf("sum is %d",s);
}
```

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

```c
#include<stdio.h>
int main()
{
    int i,n,s=0;
    printf("enter any number\n");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        s=s+2*i-1;
    }
    printf("sum is %d",s);
}
```

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

```c
#include<stdio.h>
int main()
{
    int i,n,s=0;
    printf("enter any number\n");
    scanf("%d",&n);
    i=1;
    while(i<=n)
    {
        s=s+i*i;
        i++;
    }
    printf("sum is %d",s);
}
```

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

```c
#include<stdio.h>
int main()
{
    int i,n,s=0;
    printf("enter any number\n");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        s=s+i*i*i;
    }
    printf("sum is %d",s);
}
```

Q 6//write a program to calculate factorial of a number

```c
#include<stdio.h>
int main()
{
    int i,n,fact=1;
    printf("enter the value of n\n");
    scanf("%d",&n);
    for(i=1;i<=n;i++)
    {
        fact=fact*i;
    }
    printf("fact is %d",fact);
    return 0;
}
```

Q 7//Write a program to count digit in a given number.

```c
#include<stdio.h>
int main()
{
    int n,count=0;
    printf("enter any number\n");
    scanf("%d",&n);
    while(n!=0)
    {
        n=n/10;
        count++;
    }
    printf("number of digit is %d",count);
}
```

Q 8//Write a program to check whether a given number is a prime number or not

```c
#include<stdio.h>
int main()
{
    int n,i,flag=0;
    printf("enter any number\n");
    scanf("%d",&n);
    for(i=2;i<n;i++)
    {
        if(n%i==0)
        {
            flag=1;
            break;
        }
    }
    if(flag==1)
        printf("number not is prime");
    else
        printf("number is prime");
}
```

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

```c
#include<stdio.h>
int main()
{
    int a,b,i;
    printf("enter two numbers\n");
    scanf("%d%d",&a,&b);
    for(i=1;i<=a*b;i++)
    {
        if((i%a==0)&&(i%b==0));
```

```c
        {
            break;
        }
    }
    printf("LCM is %d",i);
    return 0;
}
```

Q 10//Write a program to calculate LCM of two numbers.

```c
#include<stdio.h>
int main()
{
    int a,b,i;
    printf("enter two numbers\n");
    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;
}
```