1. write a program to calculate Sum of first N natural Number

Ans
```
#include<stdio.h>
int main()
{
    int i, n;
    int sum=0;
    printf ("Enter a number");
    scanf ("-/.d", &n);
    for (i=1; i<=n; i++)
    {
        sum = sum+i;
    }
    printf (" Sum of first natural Number is
                -/.d", sum);
    return 0;
}
```

Output: Enter a number 5
Sum of first natural Number is 15

2) write a program to calculate sum of first N even no.

Ans #include <stdio.h>

```c
int main()
{
    int i, n;
    int sum=0;
    printf("Enter a number");
    scanf("%d", &n);
    for(i=1; i<=n; i++)
    {
        sum = sum + i*2;
    }
    printf("Sum of first N natura Even no. is %d", sum);
}
```

output: Enter a number 5
Sum of first N natural Even no. is 30

3) write a program to calculate sum of first N odd no.

Ans #include <stdio.h>

```c
int main()
{
    int i, n, sum;
    printf("Enter a number");
    scanf("%d", &n);
    for(i=1; i<=n; i++)
    {
        sum = sum + 2*i-1;
    }
    printf("Sum of first N natural odd no. is %d", sum);
}
```

output: Enter a number 4
sum of first 4 natural odd number is 16

(4.) write a program to calculate sum of square of first N natural Number

Ans #include <stdio.h>
```
int main()
{
        int i, n, Sum=0;
        printf (" Enter a number");
        scanf (" %.d", &n);
        for(i=1; i<=n; i++)
        {
                sum= sum + i*i;
        }
    return 0;     printf (" Sum of square first numbe is %d , sum);
}
```

Output: Enter a number 7
Sum of first N numbers
is 55

(5.) write a program to calculate Sum of cubes of first N natural numbers.

Ans #include <stdio.h>
```
int main()
{
        int i, n, Sum=0;
        printf (" Entor a number");
        scanf (" %.d", &n);
        for(i=1; i<=n; i++)
        {
                sum = sum + i* i* i;
        }

        printf(" Sum of first N natural cube Number is %d", sum);
    return 0;
}
```

output:
Enter a number 4
Sum of first N natural cube Number is 100

6) write a program to calculate factorial of a No.

Ans #include<stdio.h>
int main()
{
    int i, n, fact=1;
    printf(" Enter a number");
    scanf(" %d", &n);
    for (i=1; i<=n; i++)
    {
        fact=fact*i;
    }
    printf(" factorial is %d ", fact);
    return 0;
}

output:
Enter a numbe 5
factorial is 120

7) write a program to count digits in a given no.

Ans #include <stdio.h>
int main()
{
    int n, i, count =0;
    printf(" Enter a number");
    scanf(" %d", &n);
    ~~count ++;~~
    printf(" count digit is %d ", count)
    return 0;
}
    while (n!=0)
    {
        n%10:
        count ++;
        n=n/10;
    printf(" count digit is %d", count);
    return 0;

output:
Enter a number 1834
count digit is 4

(8) write a program to check wehether a given number is a prime number or not.

Ans #include<stdio.h>
int main()
{
    int a, i, count=0;
    printf(" Enter a number");
    Scanf("%d", &a);
    for(i=2; i<=a; i++)
    {
        if (a%i ==0)
        {
            count++;
        }
    }
    if (count == 0)
    {
        printf(" prime Number");
    }
    else
    {
        printf(" Not a prime");
    }
    return 0;
}

Output: Enter a number 5

Prime Number.

9.) write a program to reverse a given number.

Ans #include<stdio.h>

```c
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 give number.

Ans #include <stdio.h>

```c
int main()
{
    int a, r, rev=0;
    printf(" Enter a number");
    scanf(" %d", &a);
    while(a!=0)
    {
        r=a % 10;
        rev = rev * 10 + r;
        a = a / 10;
    }
    printf(" %d revese Number", rev);
    return 0;
}
```