1) Find the first and last digits of a number.

```
#include< stdio.h>
int main(){
  int n, first Digit, Last Digit;
  printf ("enter a number :");
  scanf ("%d", &n);
  last Digit = n%.10;
  first Digit = n;
  while (first Digit >=10) {
      first Digit /=10;
  }
  printf ("First digit : %d\n", first Digit);
  printf ("Last digit : %d\n", last Digit);
  return 0;
  }
```

Output:

Enter a number : 1 2 3 4 5

First digit : 1

last digit : 5

the first digit is 1 and last digit is 5

(2) write the C code to calculate the factorial.

```
#include < stdio.h>
int main() {
   int n, i;
long long factorial = 1;
printf (" enter a number: ");
scanf ("%d", &n);
if (n<0) {
   printf ("factorial of a negative number doesn't exist.\n");
} else {
   for (i=1; i<= n; ++i) {
       factorial *= i;
   }
```

```
printf ("factorial of %d = %ld\n", n, factorial);
return 0;
}
```

output:

Enter a number : 5

Factorial of 5 = 120

3) Check whether a Number is prime or Not

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

output:

Enter a number: 7

7 is a prime number

11) check whether a Number is a strong Number or NOt

```
#include <stdio.h>
int main() {
    int num, temp, rem, fact, i, sum = 0;
printf ("Enter a Number : ");
Scanf ("%d", &num);
temp = num;
while (temp>0) {
    rem = temp % 10;
    fact = 1;
for (i = 1; i <=rem ; i++)
    fact * = i;
    Sum + = fact;
    temp/ = 10;
    }
if (sum = = num)
    printf ("%d is a strong number: \n", num);
else
printf ("%d is not a strong number : \n", num);
return 0;
}
```

output:

Enter a number : 145

145 is a strong number.

5) Find the sum of all digits in a Number.

```
#include <stdio.h>
int main() {
    int num, sum = 0, rem;
    printf("Enter a number: ");
    scanf("%d", &num);
    while (num > 0) {
        rem = num % 10;
        sum += rem;
        num /= 10;
    }
    printf("Sum of digits = %d\n", sum);
    return 0;
}
```

Output:

```
Enter a number : 1234
  Sum of digits = 10
```