1. Write a c-program to find first and last 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;
    while (n >= 10) {
        n = n / 10;
    }
    first_digit = n;
    printf("The first digit is : %d \n", first_digit);
    printf("The last digit is : %d \n", last_digit);
    return 0;
}
```

output

output

Input number :1234

first digit :1

last digit : 4

2. Find the factorial of a given number :

```c
#include <stdio.h>
int main() {
    int n, i;
    long long factorial = 1;
    printf("Enter an integer:");
    scanf("%d", &n);
    if (n<0) {
        printf("Error! factorial of a negative doesn't exist.");
    } else {
        for (i=1; i<=n; ++i) {
            factorial *= i;
        }
        printf("factorial of %d = %lld", n, factorial);
    }
    return 0;
}
```

output

Enter an integer
factorial of 5 = 120.

3. find the given number is prime number or not.

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

output

Enter a positive integer : 7
7 is a prime number.

4. Print the given number is strong number or not

```c
#include <stdio.h>

int main() {
    printf(" Enter a number :");
    // check if the number is a strong number
    if (sum == original Num) {
        printf(" %d is a strong number. \n" original Num);
    } else {
        printf(" %d is not a strong number \n", original Num);
    }
    return 0;
}
```

Output

Enter a number : 145
is a strong number.

5)-Find the sum of all digits in a given number.

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

output:

Enter a number : 123.

6.