

=> Write a C program to find first and last digit of a number.

```
#include <stdio.h>
```

```
int main() {
```

```
int n, first, last;
```

```
printf("Enter a number: ");
```

```
scanf("%d", &n);
```

```
last = n % 10;
```

```
while(n >= 10)
```

```
    n /= 10;
```

```
first = n;
```

```
printf("First digit = %d\n Last digit = %d\n", first, last);
```

```
return 0;
```

```
}
```

Output :

Enter a number: 7642

First digit = 7

Last digit = 2

=> Find the given number is prime number or not

```
#include <stdio.h>
```

```
int main() {
```

```
int num, i, isPrime = 1;
```

```
// input from user
```

```
printf("Enter a number:");
```

```
scanf("%d", &num);
```

```
// 0 and 1 are not prime numbers
```

```
if (num <= 1) {
```

```
isPrime = 0;
```

```
} else {
```

```
// check divisibility from 2 to num/2
```

```
for (i = 2; i <= num/2; i++) {
```

```
if (num % i == 0) {
```

```
isPrime = 0;
```

```
break;
```

```
} } }
```

```
// output result
```

```
if (isPrime)
```

```
printf("%d is a prime number.\n", num);
```

```
else
```

```
printf("%d is not a prime number.\n", num);
```

```
return 0;
```

```
}
```

out put :

Enter a number : 764

764 is not a prime number.

=> Find the factorial of a given number

```
#include <stdio.h>
```

```
int main() {
```

```
int n, i;
```

```
long long fact=1;
```

```
printf("Enter a number:");
```

```
scanf("%d", &n);
```

```
if(n < 0)
```

```
printf("Factorial not defined for negative numbers.\n");
```

```
else {
```

```
for(i=1; i<=n; i++)
```

```
fact *= i;
```

```
printf("Factorial of %d = %lld\n", n, fact);
```

```
}
```

```
return 0;
```

```
}
```

Output :

Enter a number : 4

Factorial of 4 = 24

=> Print the given number is strong number or not

```
#include <stdio.h>

// function to calculate factorial of a number
int factorial(int n) {
    int fact = 1;
    for(int i = 1; i <= n; i++) {
        fact *= i;
    }
    return fact;
}

int main() {
    int num, temp, remainder, sum = 0;

    // input a number from user
    printf("Enter a number: ");
    scanf("%d", &num);

    temp = num;

    // calculate sum of factorials of digits
    while(temp > 0) {
        remainder = temp % 10;
        sum += factorial(remainder);
        temp /= 10;
    }

    // check if the number is strong or not
    if(sum == num)
        printf("%d is a strong Number.\n", num);
    else
        printf("%d is not a strong number.\n", num);
    return 0;
}
```

out put :

Enter a number: 654

654 is not a prime number

=> Find sum of all digits in a number.

```
#include <stdio.h>
```

```
int main() {
```

```
int n, sum = 0, rem;
```

```
printf("Enter a number : ");
```

```
scanf("%d", &n);
```

```
while (n > 0) {
```

```
    rem = n % 10;
```

```
    sum = sum + rem;
```

```
    n = n / 10;
```

```
}
```

```
printf("sum of all digits = %d", sum);
```

```
return 0;
```

```
}
```

Output :-

Enter a number: 1234

Sum of all digits = 10