

① Find First and Last Digit of a Number

```
#include <stdio.h>
int main() {
    int num, first, last;
    printf("Enter any number: ");
    scanf("%d", &num);

    last = num % 10; // Get last digit
    while (num >= 10) {
        num = num / 10;
    }
    first = num; // Get first digit

    printf("First digit = %d\n", first);
    printf("Last digit = %d\n", last);
    return 0;
}
```

Example Output:

```
Enter any number: 4579
First digit = 4
Last digit = 9
```

② Find Factorial of a Given Number

```
#include <stdio.h>
int main() {
    int n, i;
    long long fact = 1;
    printf("Enter a number: ");
    scanf("%d", &n);

    for(i = 1; i <= n; i++) {
        fact *= i;
    }

    printf("Factorial of %d = %lld\n", n, fact);
    return 0;
}
```

Example 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;
    else {
        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;
}
```

Example Output:

Enter a number: 7
7 is a Prime number

④ Check Whether a Number is a Strong Number

> (Strong number: Sum of factorials of digits = original number. Example: 145 → 1!+4!+5!=145)

```
#include <stdio.h>
int main() {
    int num, temp, rem, i;
    long fact, sum = 0;
    printf("Enter a number: ");
```

```

scanf("%d", &num);
temp = num;

while (num > 0) {
    rem = num % 10;
    fact = 1;
    for(i = 1; i <= rem; i++) {
        fact *= i;
    }
    sum += fact;
    num /= 10;
}

if (sum == temp)
    printf("%d is a Strong number\n", temp);
else
    printf("%d is not a Strong number\n", temp);

return 0;
}

```

Example Output:

```

Enter a number: 145
145 is a Strong number

```

⑤ Find Sum of All Digits in a Number

```

#include <stdio.h>
int main() {
    int num, sum = 0, rem;
    printf("Enter any number: ");
    scanf("%d", &num);

    while (num > 0) {
        rem = num % 10;
        sum += rem;
        num /= 10;
    }

    printf("Sum of digits = %d\n", sum);
    return 0;
}

```

Example Output:

Enter any number: 5432

Sum of digits = 14