

Write a C programming to find first and
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 of a negative number doesn't exist.\n");
    else {
```

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

```
        fact = fact * i;
    }
```

```
    printf ("factorial of %d = %d\n", n, fact);
}
```

```
return 0;
}
```

Output

Enter a number : 5

factorial of 5 = 120

```

The given number is prime number or not
#include <stdio.h>
int main()
{
    int n, i, count = 0;
    printf("Enter a number : ");
    scanf("%d", &n);
    if (n <= 1)
    {
        printf(" %d is not a prime number.\n", n);
    }
    else
    {
        for (i = 2; i <= n; i++)
        {
            if (n % i == 0)
            {
                count++;
                break;
            }
        }
        if (count == 1)
        {
            printf(" %d is prime number.\n", n);
        }
        else
        {
            printf(" %d is not prime number.\n", n);
        }
    }
    return 0;
}
Output
Enter a number : 7
7 is prime number

```

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```

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

```

Output

```

Enter a number : 145
145 is a strong number

```

```

Enter a number : 123
123 is not a strong number

```

Find the 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 = %.2f \n", sum);
```

```
return 0;
```

```
}
```

Output

Enter a number : 1234

Sum of all digits = 10

Ques. If a program finds a prime number between 1 to 1000.

Write a C programming to find first and last digit of a number

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

```
int main()
```

```
{
```

```
int num, firstDigit, lastDigit;
```

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

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

```
lastDigit = num % 10;
```

```
firstDigit = num;
```

```
while (firstDigit >= 10) {
```

```
firstDigit = firstDigit / 10;
```

```
}
```

```
printf("first digit = %d\n", firstDigit);
```

```
printf("Last digit = %d\n", lastDigit);
```

```
return 0;
```

```
}
```

Output

Enter any number : 5472

first number = 5

last number = 2.