

1)Write a c program to find first and last digit of a number?

Input

```
#include <stdio.h>

int main() {
    int num,first,last;scanf("%d",&num);

    last = num%10;

    first = num;

    while(first>=10){
        first = first/10;
    }

    printf("first and last number of a digit %d %d\n",first,last);

    return 0;
}
```

output

2009

first and last number of a digit 2 9

...Program finished with exit code 0

2)Find the factorial of a given number

Input

```
#include <stdio.h>

int main() {
    int num, i;

    unsigned long long factorial = 1;

    printf("enter a number: ");

    scanf("%d" , &num);

    if (num < 0) {
```

```

        printf("factorial does not exist for negative numbers. \n ");
    } else {
        for (i = 1; i <= num; i++) {
            factorial *= i;
        }
        printf("factorial of %d is: %11u\n" , num, factorial);
    }
    return 0;
}

```

output

enter a number: 9

factorial of 9 is: 362880

...Program finished with exit code 0

3) Find the given number is a prime number or not

Input

```

#include <stdio.h>

int main() {
    int num, i, isprime = 1;
    printf("enter a number: ");
    scanf("%d" , &num);
    if (num <= 1) {
        isprime = 0;
    } else {
        for (i = 2; i <= num; i++) {
            if (num % i == 0) {
                isprime = 0;
            }
        }
    }
}

```

```

    }
    if (isprime)
        printf("%d is a prime number.\n",num);
    else
        printf("%d is not a prime number.\n" , num);
    return 0;
}

```

output

```

enter a number: 72
72 is not a prime number.
enter a number: 107
107 is a prime number.

```

4)Print the given is strong number or not

Input

```

#include <stdio.h>

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

int main() {
    int num, temp, digit, sum = 0;
    printf("Enter a number: ");
    scanf("%d", &num);

```

```

temp = num;
while(temp > 0) {
    digit = temp % 10;
    sum += factorial(digit);
    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.

Enter a number: 123

123 is NOT a Strong Number.

5)Find sum of all digits in a number

Input

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

```
int main() {
```

```
    int num, sum = 0, temp, digit;
```

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

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

```
    temp = num;
```

```
while(temp > 0) {  
    digit = temp % 10;  
    sum += digit;  
    temp /= 10;  
}  
printf("Sum of digits of %d is %d\n", num, sum);  
return 0;  
}
```

output

Enter a number: 1976

Sum of digits of 1976 is 23