(1) →

```
#include <stdio.h>
int main() {
 int num, first digit, last digit;
 printf("Enter a number: ");
 scanf("%d", &num);
 last digit = num%.10;
 first digit = num;
while (first digit >= 10) {
first digit = first digit / 10;
 }
 printf("first digit = %.d\n" first digit);
printf("Last digit = %.d\n", last digit);
 return 0;
  }
```

Output :-

input : 5729

output :

first digit = 5

Last digit = 9

(2)

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

Output :-

input : 5

output : factorial of 5 = 120

(3)

```
# 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/2; i++){
    if (num % i == 0) {
     is prime = 0;
     break;
    }
    }
    }
 if (isprime)
 printf ("%d is a prime numbers.\n", num);
   else
 printf("%d is not a prime number\n", num);
  return 0;
   }
```

Output :-

input = 7

output = 7 is a prime number.

(4)

```
#include <stdio.h>
int factorial (int n) {
for (int i= 1; i<=n; i++)
  fact *= i;
return fact; }
int main () {
int num , temp, sum =0, digit;
printf("Enter a number : ");
Scanf("%d", &num);
```

```
    temp = num;
    while (temp > 0) {
     digit = temp % 10;
    sum += factorial(digit);
    temp /= 100; }
    if (sum == num)
  printf("%d is a strong number.\n", num);
  else
   printf("%d is not a strong number,\n", num);
   return 0;
   }
```

Output :-

input : 145

output :- 145 is a strong number.

⑤

```
# include <stdio.h>
int main () {
int num, sum = 0, digit;
printf ("Enter a number : ");
scanf ("%d", &num);
while (num > 0) {
digit = num % 10;
  sum += digit;
  num /= 100;
  }
printf ("sum of digits = %d\n", sum);
return 0;
}
```

Output :-

input = 472

output = sum of digits = 13 //