1.
```
#include <stdio.h>
int main(){
int num, firstDigit, lastDigit;
Printf("Enter a numbers:");
scanf("%d",&num);
int n = num;
last digit =num%.10;
while (num >=10){
num =num /10;
}
first Digit =num;
Printf("The first digit of %.d is %.d\n", n ,first
      digit);
printf("The last digit of %.d is %d\n", n, last digit);
return 0;
}
```

Out Put;

The first digit of 12345 is1

The last digit of 12345 is 5

2)
```
# include <stdio.h>
  Int main(){
  int n;
  unsigned long long factorial =1;
  Printf("Enter a numbers:");
  Scanf("%.d", &n);
  if (n<0){
  Printf("factorial is not defined for negative numbers.
                                        \n");
  }
  else {
  for (int i =1; i<=n; ++i){
   factorial *=i;
   }
```

```
Printf ("factorial of %.d = %llu\n", n, factorial);
}
return 0;
}
```

Out Put:-

Enter a number : 5

factorial of 5 = 120

3)

```
#include <stdio.h>
int main (){
int n, i, is Prime = 1;
Printf ("Enter a number :");
Scanf ("%.d", &n);
if (n <= 1){
is prime = 0;
} else {
for (i = 2; i * i <= n; i++){
if (n %. i == 0){
is prime = 0;
break;
}
}
}
if (is prime)
Printf ("%.d is a prime numbers .\n", n);
else
Printf ("%.d is not a prime numbers. \n", n);
return 0;
}
```

Out Put:

Enter a numbers : 7

7 is a prime numbers

Enter a number : 12
12 is not a prime number

4.

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

Out Put

Enter a number : 145
145 is a strong number.

Enter a number :123
123 is not a strong number.

5. #include <stdio.h>

```
int main(){
int num, sum =0, remainder;
Printf ("Enter a number:");
Scanf ("%d",&num);
int temp =num;
while (temp != 0){
remainder = temp % 10;
 Sum += remainder;
 temp /=10;
 }
Printf ("Sum of digits of %d = %d\n", num, sum);
Return 0;
}
```

Out put

```
Enter a number :12345
Sum of digits of 12345 = 15
```