1. Calculate the sum of numbers (10 numbers max) & If the user enters a negative number, the loop terminates.

```
#include<stdio.h>
int main()
{
 int number, i, sum=0;
for(i=0;i<=10;i++)
 {
  printf("Enter number: ");
  scanf("%d",&number);
  if( number<0 ) //-ve numbers are skipped
  break;
  sum += number; //sum = sum + number
 }
 printf("Sum=%d",sum);
 return 0;
}
```

**OUTPUT:** 

Enter number: 1
Enter number: 2
Enter number: 3
Enter number: 4
Enter number: 5
Enter number: 6
Enter number: -1
Sum=21

2. Calculate the sum of numbers (10 numbers max) & If the user enters a negative number, it's not added to the result.

```
#include<stdio.h>
int main(){
  int num, i, sum=0;
     for(i=0;i<=10;i++){

  printf("Enter number: ");
  scanf("%d",&num);

  if( num<0 )
     continue;

  sum += num;
  }

  printf("Sum=%d",sum);

  return 0;
}

OUTPUT:
Enter number: 1</pre>
```

Enter number: 1
Enter number: 2

Enter number: 3
Enter number: 45
Enter number: -1
Enter number: 5
Enter number: -5
Enter number: 6
Enter number: 4
Enter number: 5
Enter number: 5
Enter number: 5
Enter number: 5

# 3. Take input from the user until he/she enters zero. (Using Break)

```
#include<stdio.h>
int main(){
  int num,i;
     for(;;){

    printf("Enter number: ");
    scanf("%d",&num);

    if( num==0 )
      break;
     }

    printf("entered zero");

    return 0;
}

OUTPUT:
Enter number: 1
Enter number: 2
```

Enter number: 3 Enter number: 4 Enter number: 0 entered zero

## 4. Check whether the given number is prime or not.(Using Break)

```
#include <stdio.h>
int main() {
  int n, i, flag = 0;
  printf("Enter a number: ");
  scanf("%d", &n);
  for (i = 2; i \le n / 2; ++i) {
    // not prime
    if (n \% i == 0) {
       flag = 1;
       break;
    }
  }
  if (n == 1) {
    printf("1 is neither prime nor composite.");
  else {
    if (flag == 0)
       printf("%d is a prime number.", n);
    else
       printf("%d is not a prime number.", n);
  }
  return 0;
}
```

### **OUTPUT:**

Enter a number: 5 5 is a prime number.

5. Print sum of odd numbers between 0 and 10. (Using Continue)

```
#include<stdio.h>
int main(){
  int i, sum=0;
     for(i=0;i<10;i++){
     if(i %2==0 )
     continue;

  sum += i;
  }

  printf("Sum=%d",sum);

  return 0;
}

OUTPUT:
Sum=25</pre>
```

6. Check whether the given number is prime or not. (Using Continue)

```
#include <stdio.h>
int main() {
  int n, i, flag = 0;
  printf("Enter a number: ");
  scanf("%d", &n);

for (i = 2; i <= n / 2; ++i) {</pre>
```

```
// not prime
       if (n \% i == 0) {
         flag = 1;
         continue;
       }
     }
     if (n == 1) {
       printf("1 is neither prime nor composite.");
     }
     else {
       if (flag == 0)
         printf("%d is a prime number.", n);
       else
         printf("%d is not a prime number.", n);
     }
     return 0;
  OUTPUT:
  Enter a number: 6
  6 is not a prime number.
7. Print all even numbers from 1 to 100. (Using Continue)
   #include<stdio.h>
  int main(){
   int i;
        for(i=1;i<=100;i++){
        if(i %2!=0)
     continue;
         printf("%d\n",i);
  return 0;
```

# OUTPUT: 2 4 6 8 10 12 14

# 8. Print numbers from 1 to 10 using goto statement. (Using goto)

```
#include<stdio.h>
int main(){
    int num=1;
    label:
        printf("%d\n",num);
        num++;
        if(num<=10)
        goto label;
    return 0;
}
OUTPUT:</pre>
```

```
1
2
3
4
5
6
7
8
9
```

9. Program to calculate the sum and average of positive numbers, If the user enters a negative number, the sum and average are displayed. (Using goto)

```
#include <stdio.h>
int main(){
   const int maxInput = 100;
   int i;
   double number, average, sum = 0.0;

for (i = 1; i <= maxInput; ++i) {
    printf("%d. Enter a number: ", i);
    scanf("%If", &number);

   // go to jump if the user enters a negative number if (number < 0.0) {
      goto label;
   }
   sum += number;
}</pre>
```

label:

```
average = sum / (i - 1);
       printf("Sum = \%.2f\n", sum);
       printf("Average = %.2f", average);
       return 0;
     OUTPUT:
      Enter a number: 1
     Enter a number: 2
     Enter a number: 3
     Enter a number: 4
     Enter a number: 5
     Enter a number: -1
     Sum = 15.00
     Average = 3.00
10. Check if a number is even or not. (Using goto)
#include <stdio.h>
#include<stdlib.h>
int main(){
  int num;
     printf("Enter a number\n");
  scanf("%d", &num);
  if (num \% 2 == 0){
    goto even;
  }
```

```
else{
    goto odd;
    }
even:
    printf("%d is even\n", num);
    exit (0);
odd:
    printf("%d is odd\n", num);
    return 0;
}
OUTPUT:
    Enter a number
    9
    9 is odd
```