Q1.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 )
     break;

    sum += number;
  }
}
```

OUTPUT-

```
Enter number: 7
Enter number: 9
Enter number: 9
Enter number: -6
```

Q2.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 number, i, sum=0;

  for(i=0;i<10;i++)
  {

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

    if( number<0 )
    continue;

    sum += number;
  }
  printf("sum of 10 postive number %d",sum);
}
```

OUTPUT-

```
Enter number: 10
Enter number: 10
Enter number: 10
Enter number: 10
```

```
Enter number: 10
Enter number: 10
Enter number: 10
Enter number: 10
Enter number: 10
Enter number: 10
sum of 10 postive number 100
```

Q3.take input from the user until he/she enters zero. (Using Break) .

```
#include<stdio.h>
int main()
{
  int a;
  while (1)
  {
      printf("enter the number:");
      scanf("%d",&a);
      if(a==0)
      break;
  }
 return 0;
}
```

OUTPUT-

```
enter the number:19
enter the number:5
enter the number:9
enter the number:8
enter the number:0
```

Q4.check whether the given number is prime or not.(Using Break)

```
#include<stdio.h>
void main()
{
  int num,a=0;

      printf("input a number:");
      scanf("%d",&num);
      for( int i=2;i<num/2;i++)
      {
          if(num % i==0)
          {
          a++;

      break;
}
}
if(a==0 && num!=1)
    printf("%d is a prime number\n",num);
```

```
    else
    printf("%d is not a prime number",num);
}
OUTPUT-
input a number:7
7 is a prime number
```

Q5.print sum of odd numbers between 0 and 10. (Using Continue)

```
#include <stdio.h>

int main()
{
    int i, n, sum=0;

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


    for(i=1; i<=10; i+=2)
    {
        sum += i;
    }

    printf("Sum of odd numbers = %d", sum);

    return 0;
}
OUTPUT-
Enter number: 10
Sum of odd numbers = 25
```

Q6.check whether the given number is prime or not.(Using Continue)

```
#include<stdio.h>
void main()
{
  int num,a=0;
  printf("input a number:");
      scanf("%d",&num);
      for( int i=2;i<num/2;i++)
      {
          if(num % i==0)
          {
          a++;

    continue;
}
}
if(a==0 && num!=1)
    printf("%d is a prime number\n",num);
```

```
    else
    printf("%d is not a prime number",num);
}
```

OUTPUT-

```
input a number:9
9 is not a prime number
```

Q7.print all even numbers from 1 to 100. (Using Continue).

```
#include <stdio.h>

int main()
{
    int a;
    printf("Even numbers between 1 to 100\n");
    for(a = 1; a<= 100; a++)
    {
    if(a%2 == 0)
        continue;
        {
     printf("%d ", a);
        }
    }
 }
```

OUTPUT-

```
Even numbers between 1 to 100
1 3 5 7 9 11 13 15 17 19 21 23 25 27 29 31 33 35 37 39 41 43 45
47 49 51 53 55 57 59 61 63 65 67 69 71 73 75 77 79 81 83 85 87 89
91 93 95 97 99
```

Q8. print numbers from 1 to 10 using goto statement. (Using goto)

```
#include<stdio.h>
int main()
{
      int counter=1;
      int n=10;
             START:
      printf("%d ",counter);
      counter++;
      if(counter<=10)
           goto START;

      return 0;
}
```

OUTPUT

```
1 2 3 4 5 6 7 8 9 10
```

Q9.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)

Q10.check if a number is even or not. (Using goto)

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

void main()
{
    int num;
printf("Enter a number:");
    scanf("%d", &num);
 if (num % 2 == 0)
        goto even;
even:
    printf("%d is even\n", num);
    exit(0);
else
    printf("%d is \n", num);
}
```

OUTPUT-

```
Enter a number:24
24 is even
```