

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 i = 1,num,sum = 0;
    while(1)
    {

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

        if(num < 0)
            break;
        sum += num;
        i++;
        if( i>10 )
            break;

    }

    printf("Sum is %d", sum);
    return 0;
}
```

OUTPUT:

```
Enter the number:10
Enter the number:20
Enter the number:25
Enter the number:30
Enter the number:40
Enter the number:50
Enter the number:-20
Sum is 175
```

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 i, num, sum = 0;

    for (i = 1; i <= 10; ++i) {
        printf("Enter a number: ", i);
        scanf("%d", &num);

        if (num < 0) {
            continue;
        }
        sum += num;
    }
    printf("Sum is %d", sum);
    return 0;
}
```

OUTPUT:

```
Enter a number: 10
Enter a number: 20
Enter a number: 30
Enter a number: -25
Enter a number: 40
Enter a number: -10
Enter a number: 50
Enter a number: -15
Enter a number: 60
Enter a number: -30
Sum is 210
```

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

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

```
int main()
```

```
{
```

```
    int n=0, i;
```

```
    for(i=0;i<=n;i++)
```

```
    {
```

```
        printf("enter the n value:");
```

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

```
        if(n==0)
```

```
        break;
```

```
    }
```

```
    return 0;
```

```
}
```

Out put:-

Enter the value:1

Enter the value:2

Enter the value:3

Enter the value:4

Enter the value:5

Enter the value:0

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

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

```
int main()
{   int num,g,a;
    printf("enter number:");
    scanf("%d",&num);
    for(int a=2;a<num/2;++a){
        if( num % a==0 ){
            g=1;
            break;
        }
    }
    if(g==0)
        printf(" %d is prime number ",num);
    else
        printf(" %d is not prime number ",num);
    return 0;
}
```

OUTPUT:

```
enter number:29
29 is prime number
```

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

```
#include<stdio.h>
Int main()
{
Intn,l,sum;
For(i=1;i<=10;i++)
{
Printf("enter the value for n:");
Scanf("%d",&n);
If(n%2==1){
Sum=sum+n;
Printf("sum:%d\n",sum);
Continue;
}
printf("the total sum is:%d\n",sum);
}
Return0;
}
```

Out put:-

Enter the value for n:1

Sum:1

Enter the value for n:2

Sum:1

Enter the value for n:3

Sum:4

Enter the value for n:4

Sum:4

Enter the value for n:5

Sum:9

Enter the value for n:6

Sum:9

Enter the value for n:7

Sum:16

Enter the value for n:8

Sum:16

Enter the value for n:9

Sum:25

Enter the value for n:10

Sum:25

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

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

```
int main()
```

```
{    int num,g,a;
    printf("enter number:");
    scanf("%d",&num);
    for(int a=2;a<num/2;a++){
        if( num % a!=0 )
            continue;
        else
            g=1;
    }
```

```
    if(g == 0)
        printf(" %d is prime number");
    else
        printf(" %d is not prime number");
```

```
    return 0;
}
```

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

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

```
int main()
{   int num,a;
    printf("All even numbers between 1 to 100 \n");
    for(int a=1;a<=100;a++){
        if(a%2!=0)
            continue;
        printf(" %d ",a);
        if(a%26==0)

            printf("\n");
    }
    return 0;
}
```

OUTPUT:

All even numbers between 1 to 100

2	4	6	8	10	12	14	16	18	20	22	24	26
28	30	32	34	36	38	40	42	44	46	48	50	52
54	56	58	60	62	64	66	68	70	72	74	76	78
80	82	84	86	88	90	92	94	96	98	100		

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

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

```
int main()
{
    int count=1;
    int n;
    printf("Enter the value of n: ");
    scanf("%d",&n);
    start:
    printf("%d ",count);
    count++;
    if(count<=n)
        goto start;

    return 0;
}
```

OUTPUT:

Enter the value of n: 10

1 2 3 4 5 6 7 8 9 10

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 max = 100;
    int i, number, avg, sum = 0;
    for (i = 1; i <= max; ++i) {
        printf("Enter a number: ", i);
        scanf("%d", &number);
        if (number < 0) {
            goto jump;
        }
        sum += number;
    }
    jump:
    avg = sum / (i - 1);
    printf("Sum = %d\n", sum);
    printf("Avg = %d", avg);
    return 0;
}
```

OUTPUT:

Enter a number: 10

Enter a number: 20

Enter a number: 30
Enter a number: -20
Sum = 60
Avg = 20

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

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

```
int main()
{   int num;
    printf("enter the number :");
    scanf("%d",&num);
    if(num%2==0)
        goto even;
    else goto odd;

    even:
    printf(" %d is a even number",num);
    return 0;
    odd:
    printf(" %d is not a even number",num);
}
```

OUTPUT:

enter the number :24
24 is a even number