

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 n,i,sum=0;

    for(i=0;i<10;i++){
        printf("enter a number :: ");
        scanf("%d",&n);
        if(n < 0){
            break;
        }
        sum = sum + n;
    }
    printf("Sum of given number is :: %d ",sum);
    return 0;
}
```

Output:

enter a number :: 4

enter a number :: 4

enter a number :: 4

enter a number :: -5

Sum of given number is :: 12

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 n,i,sum=0;

    for(i=0;i<10;i++){
        printf("enter a number :: ");
        scanf("%d",&n);
        if(n < 0){
            continue;
        }
        sum = sum + n;
    }

    printf("Sum of given number is :: %d ",sum);

    return 0;
}
```

Output:

```
enter a number :: 4
enter a number :: 4
enter a number :: 4
enter a number :: -4
enter a number :: -3
enter a number :: 4
enter a number :: -9
enter a number :: 4
enter a number :: -8
enter a number :: 4
Sum of given number is :: 24
```

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

```
#include <stdio.h>
int main(){
int n,i,sum=0;

while(i>0){
    printf("enter a number :: ");
    scanf("%d",&n);
    if(n == 0){
        break;
    }
    i++;
}
return 0;
}
```

Output:

```
enter a number :: 5
enter a number :: 6
enter a number :: 6
enter a number :: 5
enter a number :: 0
```

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

```
#include <stdio.h>

int main(){
    int n,i,j=1,c=0;
    printf("Enter a number :: ");
    scanf("%d",&n);

    for(i=2;i<n;i++){
        if(n % i == 0){
            c += 1;
            break;
        }

    }

    if(c == 0)
        printf("%d is a prime number",n);
    else
        printf("%d is not a prime number",n);
    return 0;
}
```

Output:

Enter a number :: 13

13 is a prime number

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

```
#include <stdio.h>

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

    for(i=0;i<10;i++){
        printf("enter a number :: ");
        scanf("%d",&n);

        if(n % 2 == 0){
            continue;
        }
        sum += n;
    }

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

    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 :: 6
enter a number :: 7
enter a number :: 8
```

enter a number :: 9
enter a number :: 10
Sum of odd numbers = 25

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

```
#include <stdio.h>

int main(){
    int n,i,j=1,c=0;
    printf("Enter a number :: ");
    scanf("%d",&n);

    for(i=2;i<n;i++){
        if(n % i == 0){
            c += 1;
            continue;
        }
    }
    if(c == 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

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

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

```
int main(){  
    int i;  
    printf("Even numbers 1 to 100 :: [ ");  
    for(i=1;i<=100;i++){  
  
        if(i % 2 != 0){  
            continue;  
        }  
        printf("%d ",i);  
    }  
    printf("]");  
    return 0;  
}
```

Output:

```
Even numbers 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 i=1;
```

```
    li:  
    printf("%d \n",i);  
    i++;  
    if(i<=10){  
        goto li;  
    }
```

```
    return 0;  
}
```

Output:

```
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(){
    int c=0,n,sum=0;
    float avg=0;

    li:
    printf("Enter a number :: ");
    scanf("%d",&n);
    if(n>0){
        sum += n;
        c +=1;
    }
    if(n>0){
        goto li;
    }

    printf("Sum of given number = %d \n",sum);
    avg = sum/c;
    printf("Average of the given number = %f",avg);

    return 0;
}
```

Output:

```
Enter a number :: 5
Enter a number :: 6
Enter a number :: 3
Enter a number :: 8
Enter a number :: 9
Enter a number :: 4
Enter a number :: -5
```

Sum of given number = 35

Average of the given number = 5.000000

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

```
#include <stdio.h>

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

li:
printf("enter a number :: ");
scanf("%d",&n);

if(n % 2 != 0){
    goto li;
}
printf("%d is even number",n);

return 0;
}
```

Output:

```
enter a number :: 3
enter a number :: 7
enter a number :: 9
enter a number :: 5
enter a number :: 6
6 is even number
```