

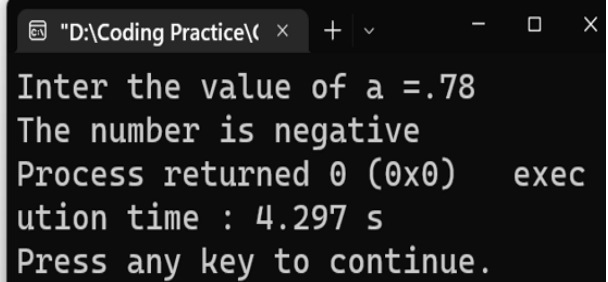
## Problem no 01: "Positive or negative"

input:

```
#include<stdio.h>
int main()
{
    int a;
    printf("Inter the value of a =");
    scanf("%d",&a);
    if (a>0){
        printf("The number is positive",a);}

    else {
        printf("The number is negative ",a);
    }
    return 0;
}
```

output:



```
"D:\Coding Practice\ x + - □ x
Inter the value of a =.78
The number is negative
Process returned 0 (0x0)   exec
ution time : 4.297 s
Press any key to continue.
```

**Description:** I use if -else condition with variable a . Then printed the number positive or negative.

## Problem no 02: "Even or odd"

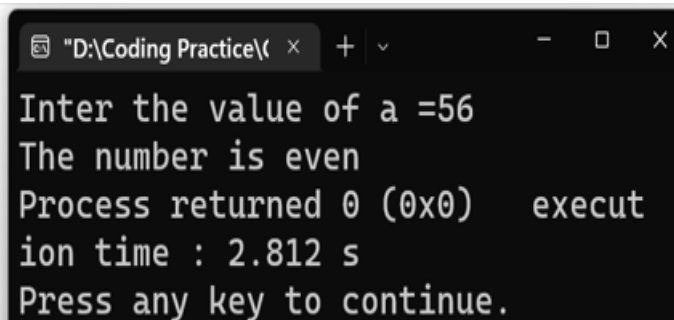
input:

```
#include <stdio.h>
int main()
{
    int a;
    printf("Inter the value of a =");
    scanf("%d",&a);
    if(a%2==0){
        printf("The number is even",a);}
    else {

        printf("The number is odd",a);}

    return 0;
}
```

output:



```
"D:\Coding Practice\ x + - □ x
Inter the value of a =56
The number is even
Process returned 0 (0x0)   execut
ion time : 2.812 s
Press any key to continue.
```

**Description:**

## Problem no 03: Swapping ( using 3<sup>rd</sup> variable)

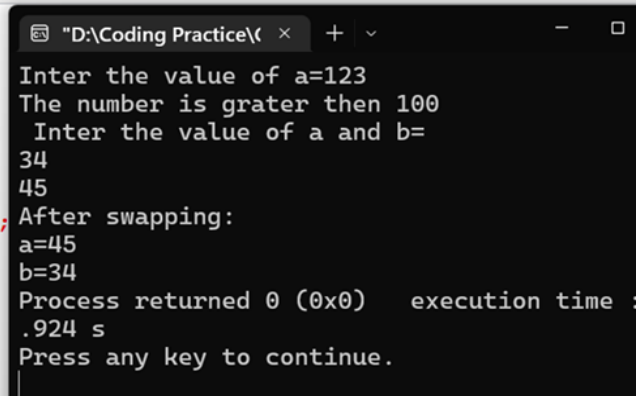
Input:

```
#include<stdio.h>
int main()
{
    int a;
    printf("Enter the value of a=");
    scanf("%d", &a);
    if (a>100){
        printf("The number is grater then 100\n ", a);

        int a,b,temp;
        printf("Enter the value of a and b=\n");
        scanf("%d%d", &a, &b);
        temp=a;
        a=b;
        b=temp;
        printf("After swapping: \n");
        printf("a=%d\nb=%d", a, b);
    }

    return 0;
```

output:



```
"D:\Coding Practice\< x + v
Enter the value of a=123
The number is grater then 100
Enter the value of a and b=
34
45
After swapping:
a=45
b=34
Process returned 0 (0x0)   execution time :
.924 s
Press any key to continue.
```

Description: we learn swapping.using 3<sup>rd</sup> variable temp.

## Problem on 04: Swapping (without using 3<sup>rd</sup> variable)

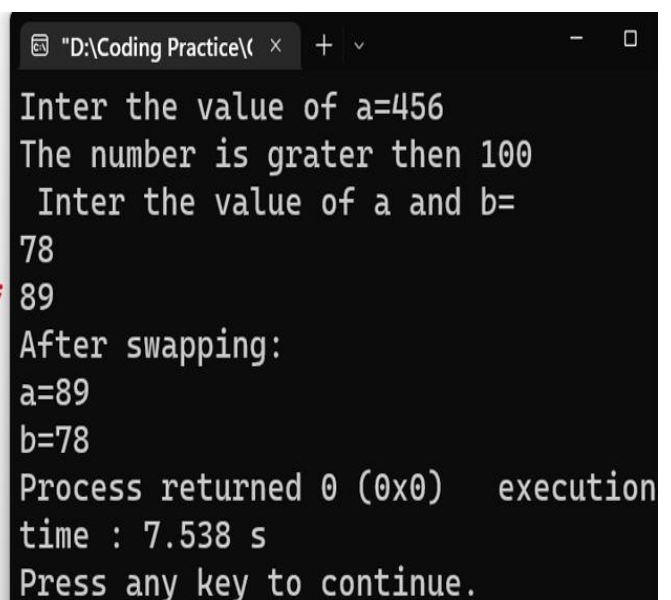
input:

```
#include<stdio.h>
int main()
{
    int a;
    printf("Enter the value of a=");
    scanf("%d", &a);
    if (a>100){
        printf("The number is grater then 100\n ", a);

        int a,b;
        printf("Enter the value of a and b=\n");
        scanf("%d%d", &a, &b);
        a=a+b;
        b=a-b;
        a=a-b;
        printf("After swapping: \n");
        printf("a=%d\nb=%d", a, b);
    }

    return 0;
```

output:



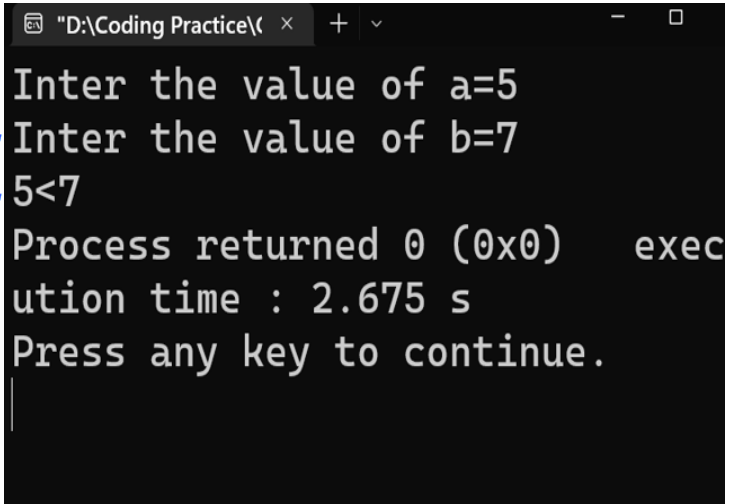
```
"D:\Coding Practice\< x + v
Enter the value of a=456
The number is grater then 100
Enter the value of a and b=
78
89
After swapping:
a=89
b=78
Process returned 0 (0x0)   execution
time : 7.538 s
Press any key to continue.
```

## Problem no 05: Condition (a==b)(a>b)(a<b)

Input:

```
#include <stdio.h>
int main()
{
    int a,b;
    printf("Enter the value of a=");
    scanf("%d",&a);
    printf("Enter the value of b=");
    scanf("%d",&b);
    if (a==b) {
        printf("%d==%d",a,b);
    }
    else if (a>b) {
        printf("%d>%d",a,b);
    }
    else if (a<b) {
        printf("%d<%d",a,b);
    }
    return 0;
}
```

output:



```
"D:\Coding Practice\
Enter the value of a=5
Enter the value of b=7
5<7
Process returned 0 (0x0) execution time : 2.675 s
Press any key to continue.
|
```

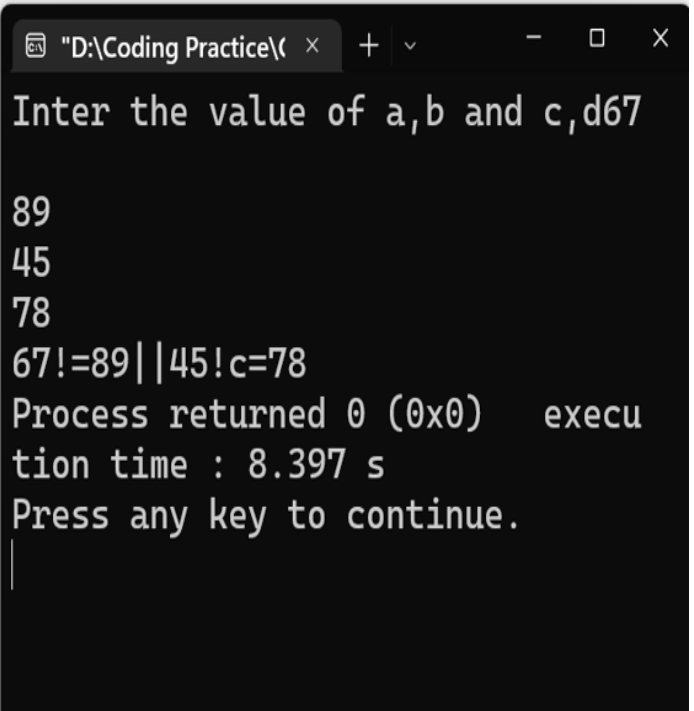
**Conclusion:** we learn how to use “ else if”

## Problem no 06: condition\_Using( “&&” “||” “!”)

Input:

```
#include<stdio.h>
int main()
{
    int a,b,c,d;
    printf("Enter the value of a,b and c,d");
    scanf("%d%d%d%d",&a,&b,&c,&d);
    if ((a==b) && (c==d)) {
        printf("%d==%d&&%d==%d",a,b,c,d);
    }
    else if ((a==b) || (c==d)) {
        printf("%d==%d||%d==%d",a,b,c,d);
    }
    else if ((a!=b) || (c!=d)) {
        printf("%d!=%d||%d!=%d",a,b,c,d);
    }
    return 0;
}
```

output:



```
"D:\Coding Practice\
Enter the value of a,b and c,d67
89
45
78
67!=89||45!=78
Process returned 0 (0x0) execution time : 8.397 s
Press any key to continue.
|
```

# Bangladesh University of Business & Technology



## Lab Report: 03

**Course Title: Structured**

**Programming Language Lab Code:**

**CSE-112**

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