

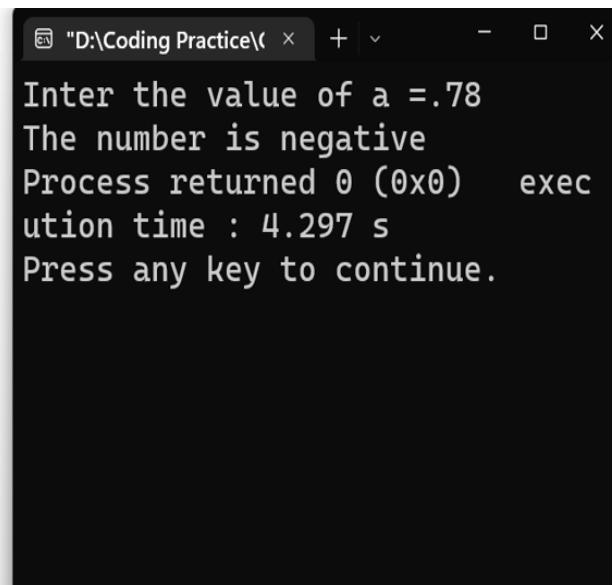
Problem no 01: “Positive or negative”

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:



```
Inter the value of a =78
The number is positive
Process returned 0 (0x0)    execution time : 4.297 s
Press any key to continue.
```

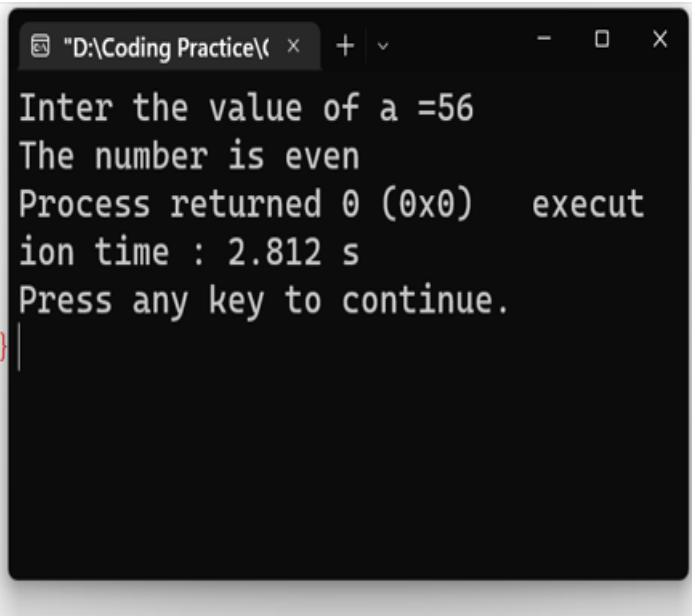
Description: I use if -else condition with variable a . Then printed the number positive or negative.

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:



```
Inter the value of a =56
The number is even
Process returned 0 (0x0)    execution time : 2.812 s
Press any key to continue.
```

Description:

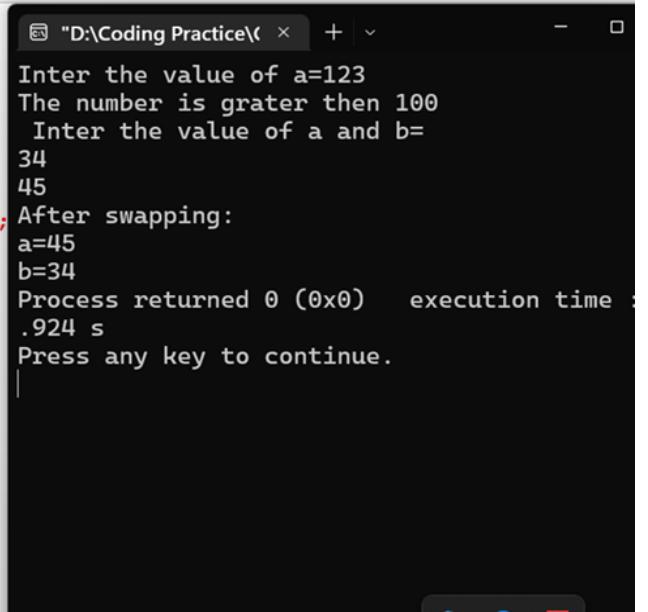
Problem no 03: Swapping (using 3rd variable)

Input:

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

        int a,b,temp;
        printf("Inter 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\c.exe" + 
Inter the value of a=123
The number is grater then 100
Inter 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 3rd variable temp.

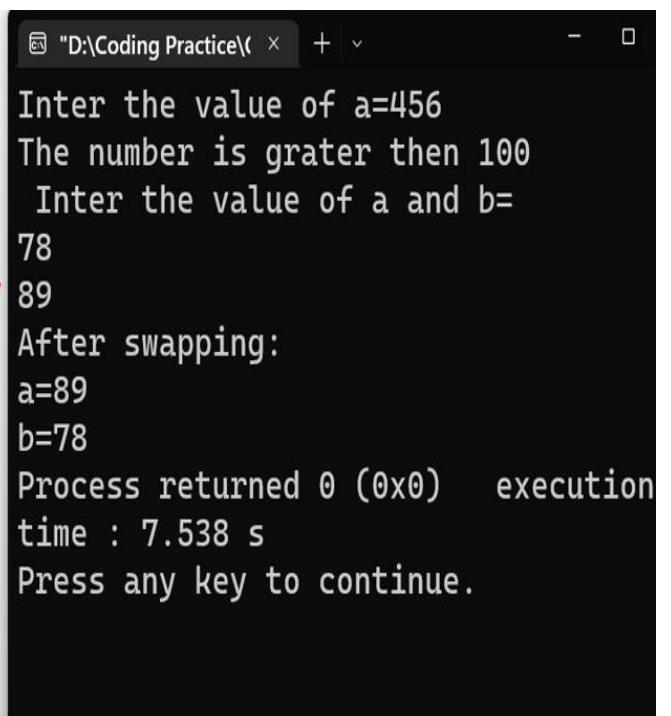
Problem on 04: Swapping (without using 3rd variable)

input:

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

        int a,b;
        printf("Inter 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:



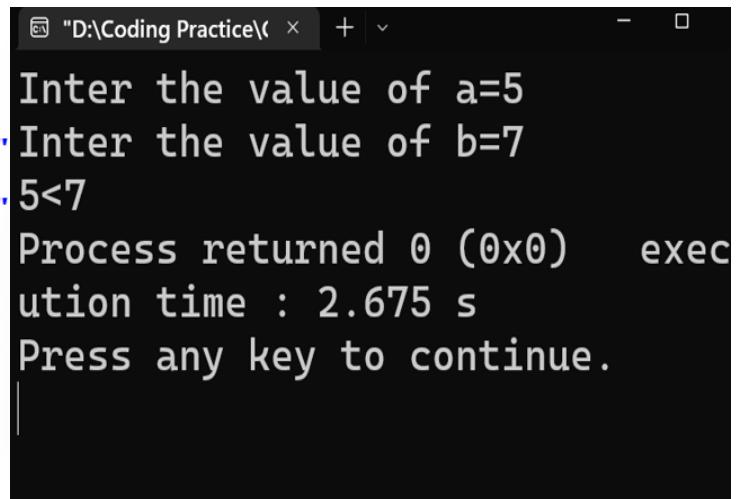
```
"D:\Coding Practice\c.exe" + 
Inter the value of a=456
The number is grater then 100
Inter the value of a and b=
78
89
After swapping:
a=89
b=78
Process returned 0 (0x0)  execution time : 7.538 s
Press any key to continue.
```

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

Input:

```
#include <stdio.h>
int main()
{
    int a,b;
    printf("Inter the value of a=");
    scanf("%d", &a);
    printf("Inter 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\c.exe
Inter the value of a=5
Inter the value of b=7
5<7
Process returned 0 (0x0)   execution time : 2.675 s
Press any key to continue.
```

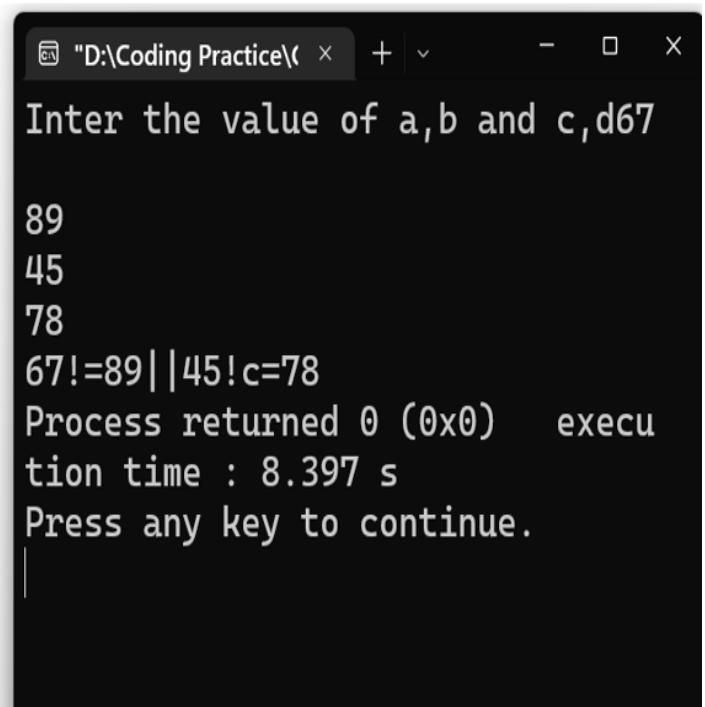
Conclusion: we learn how to use “else if”

Problem no 06: condition_Using(“&&” “| |” “!”)

Input:

```
#include<stdio.h>
int main()
{
    int a,b,c,d;
    printf("Inter 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\c.exe
Inter the value of a,b and c,d
67
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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