ECS-102 LAB TASK 3 - C IF ELSE STATEMENTS

Example 1: if statement

```
/ Program to display a number if it is negative

#include <stdio.h>
int main() {
    int number;

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

    // true if number is less than 0
    if (number < 0)
    {
        printf("You entered %d.\n", number);
    }



    return 0;
}
```

Expected Output

```
Enter an integer: -2
You entered -2.
```

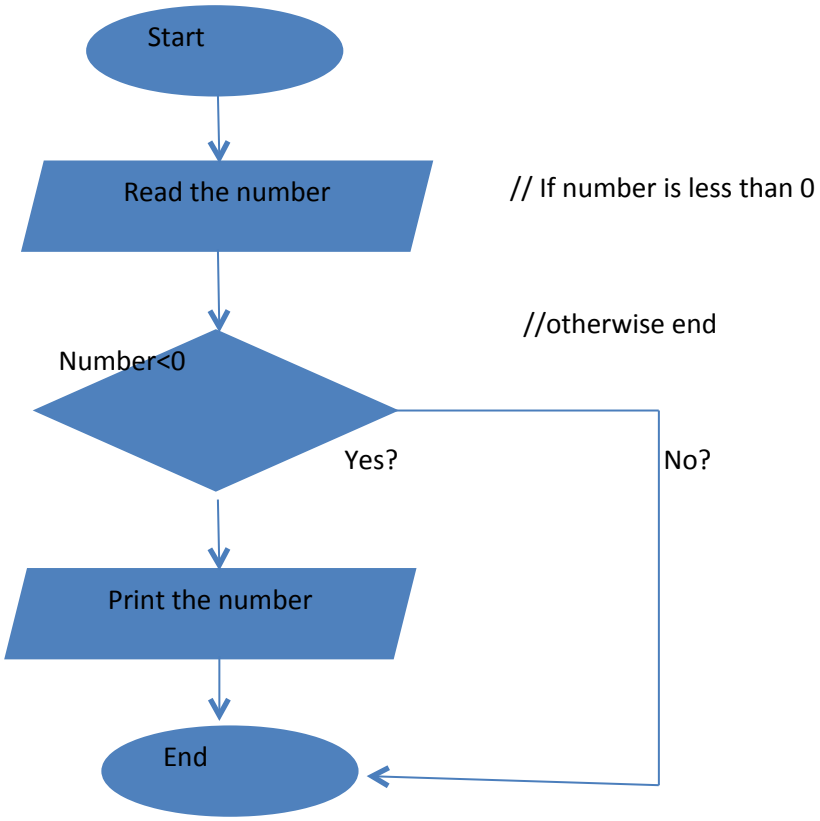
- When the user enters -2, the test expression `number<0` is evaluated to true. Hence, `You entered -2` is displayed on the screen.

```
Enter an integer: 5
```

- When the user enters 5, the test expression `number<0` is evaluated to false and the statement inside the body of `if` is not executed.

Flow chart: Flow chart for the previous example.

Symbol	Name	Function
	Start/end	An oval represents a start or end point
	Arrows	A line is a connector that shows relationships between the representative shapes
	Input/Output	A parallelogram represents input or output
	Process	A rectangle represents a process
	Decision	A diamond indicates a decision



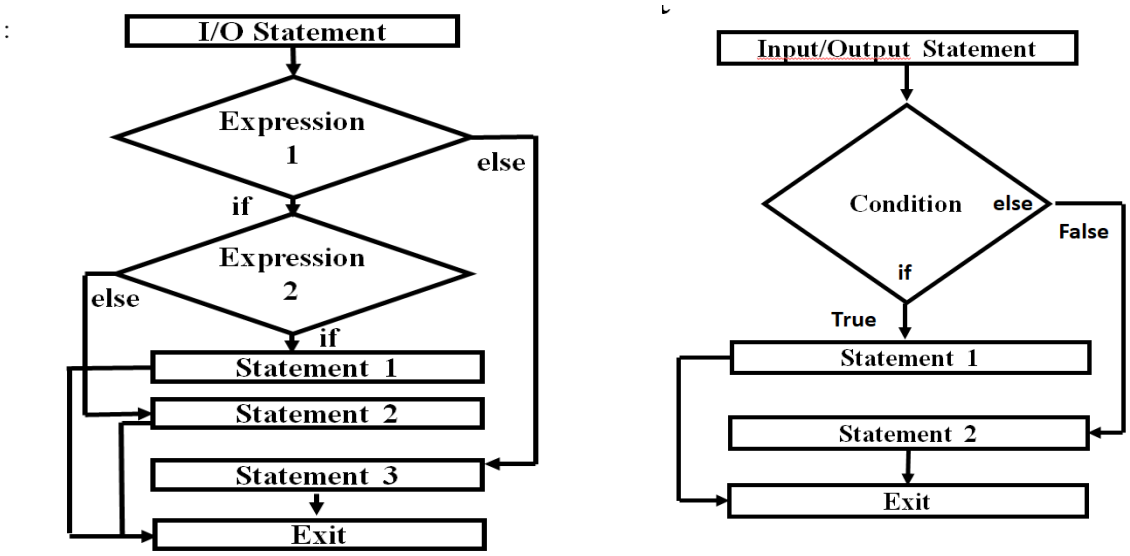
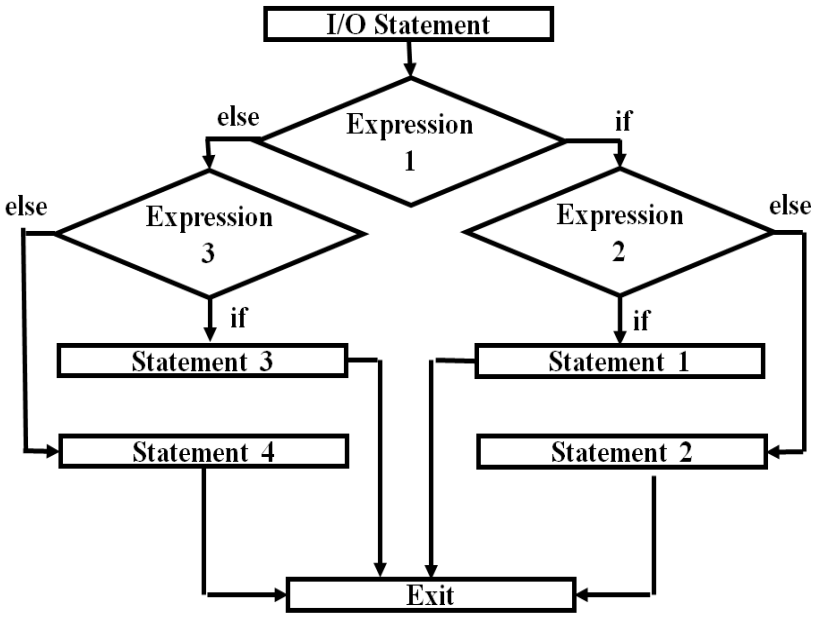


Fig:3 Flowchart for compound Nested If else statements



LAB TASK 3:

For each code draw the corresponding flowchart. For reference the flowchart fig 1,2&3 are attached.

1) WAP such that user is asked to enter the age and based on the input where the if else statement checks whether the entered age is greater than or equal to 18.If this condition meet then display message “You are eligible for voting”, however if the condition doesn’t meet then display a different message “You are not eligible for voting”.

2) WAP such that user is asked to enter an integer number. As soon as the user types in an integer number, the computer proceeds to compare the value with 100. If the value typed in is less than 100, then a message "Your number is smaller than 100" is printed on the screen. Otherwise, the message Your number contains more than two digits is printed.

3)WAP such that user asked to enter two numbers x and y. If the value of x is less than the y, then print “x is less than y”. If the value of x is more than the y, then print “x is more than y”. If the value of x is equal to y, then print “Both numbers are same”.

Instruction for Lab task submission :

You need to save the code file with .c extension and upload and turn in .c file in your respective Google classroom lab.

Save your .c file as “rollno_task2_Qno.c”

For eg. 2010704_task2_q1.c

Submit all 3 hand drawn flowchart in one separate file along with question number mentioned.