Assignment 7

09/08/2023

else-if ladder

If a mother has a lot children and when she call only one child and she want only that child to come that is called as else-if ladder or it is also called if-else ladder.

SORRY Sir if I am wrong with this example just I tried.

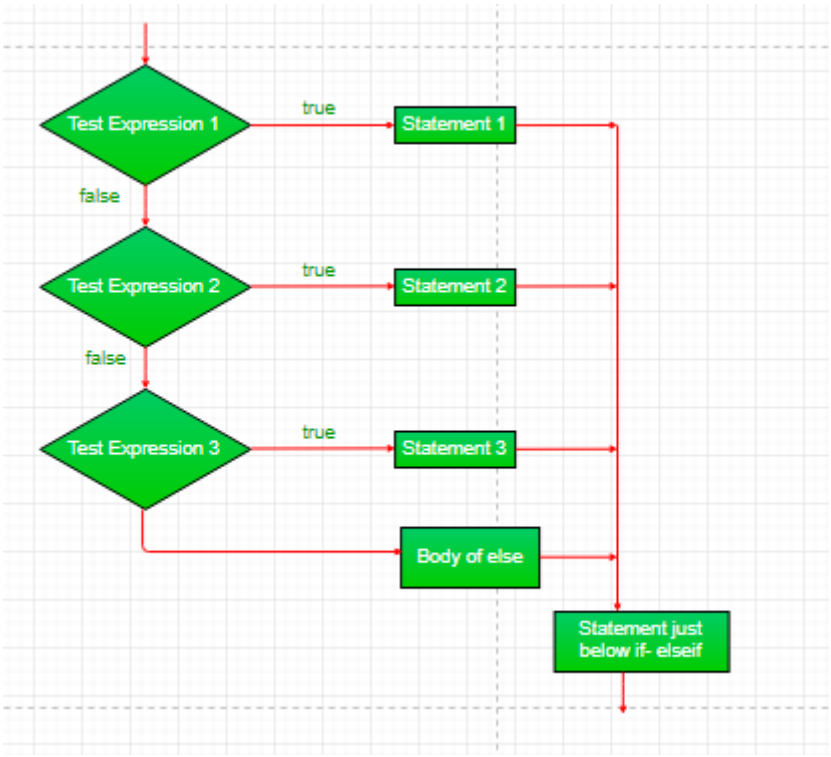


Fig: Flow chart of else-if

switch statement

Just imagine your grandma has 11 grand childrens and she is not able remember there names so from elder to younger she gave 1-11 numbers and told them if I call 7 only u should come not everyone. This is called as Switch Statement.

SORRY Sir if I am wrong with this example just I tried.

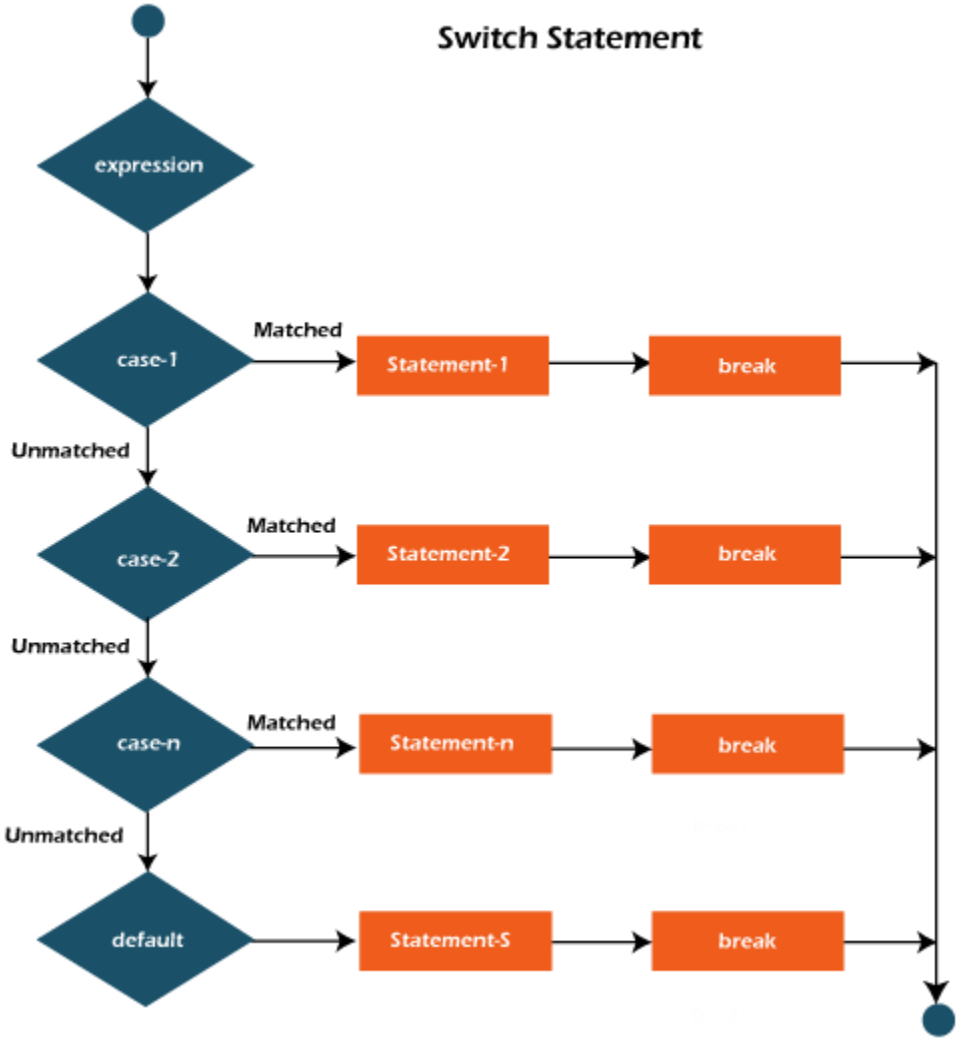


Fig: Flow chart of switch stmt

Now actually the Assignment starts, till now what I was doing you might be thinking like that I know. Till now I just gave a introduction part that's all.

Today actually we got **2 Assignments** to complete that to within **24 hours.**

Come on Let's Start with a good mood remembering **Punith Sir.**

Assignment-1

DIFFERENCE BETWEEN ELSE-IF LADDER AND SWITCH

BASIS OF COMPARISON	ELSE IF LADDER	SWITCH CASE
The control	In else if ladder, the control runs through the every else if statement until it arrives at the true value of the statement or until it comes to the end of the else if ladder.	In else if ladder, the control runs through the every else if statement until it arrives at the true value of the statement or until it comes to the end of the else if ladder.
Working	Else if ladder statement works on the basis of true false.	Switch case statement work on the basis of equality operator.
Use of Break Statement	In else if ladder, the use of break statement is not very essential.	In switch, the use of break statement is mandatory and very important.
Variable Data	Integer is the only variable data type that can be in expression of switch.	Either integer or character is the variable data type that can be in expression of switch.
Processing of Codes	In the case of else if ladder, the code needs to be processed in the order determined by the programmer.	In Switch case, it is possible to optimize the switch statement, because of their efficiency. Each case in switch statement does not depend on the previous one.
Usage	Else if ladder is used when there is multiple conditions are to be tested.	Switch case is used when there is only one condition and multiple values of the same are to be tested.
Values	Values are based on constraint.	Values are based on user choice.

Sir I didn't copy pasted this table sir. I read each and every line and then typed with difficultly and also I felt happy that I understood little bit atleast.

Now let's start **Assignment-2** with this good mood only.

Assignment-2

Nested simple if

Nested means within. Nested if condition means if-within-if. Nested if condition comes under decision-making statement in Java**.**

Syntax:

```
if( test_condition1){
    if( test_condition2){
        if( test_condition3){
            if( test_condition4){
                //statements to execute
            }
        }
    }
}
```

Flow chart

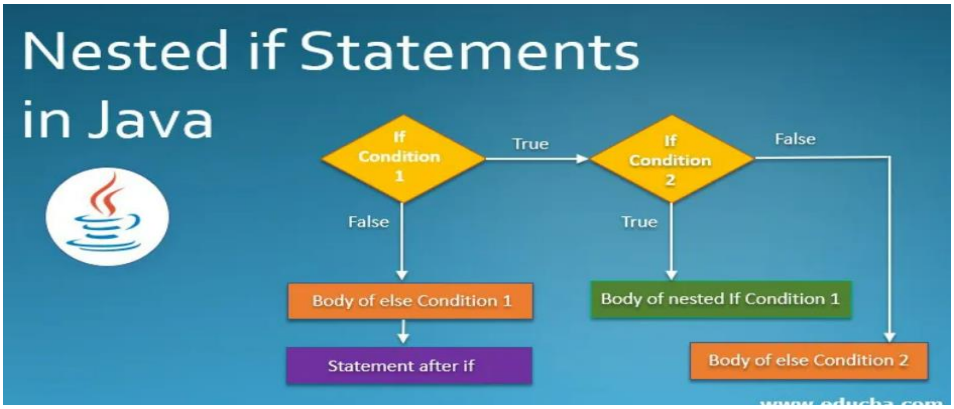
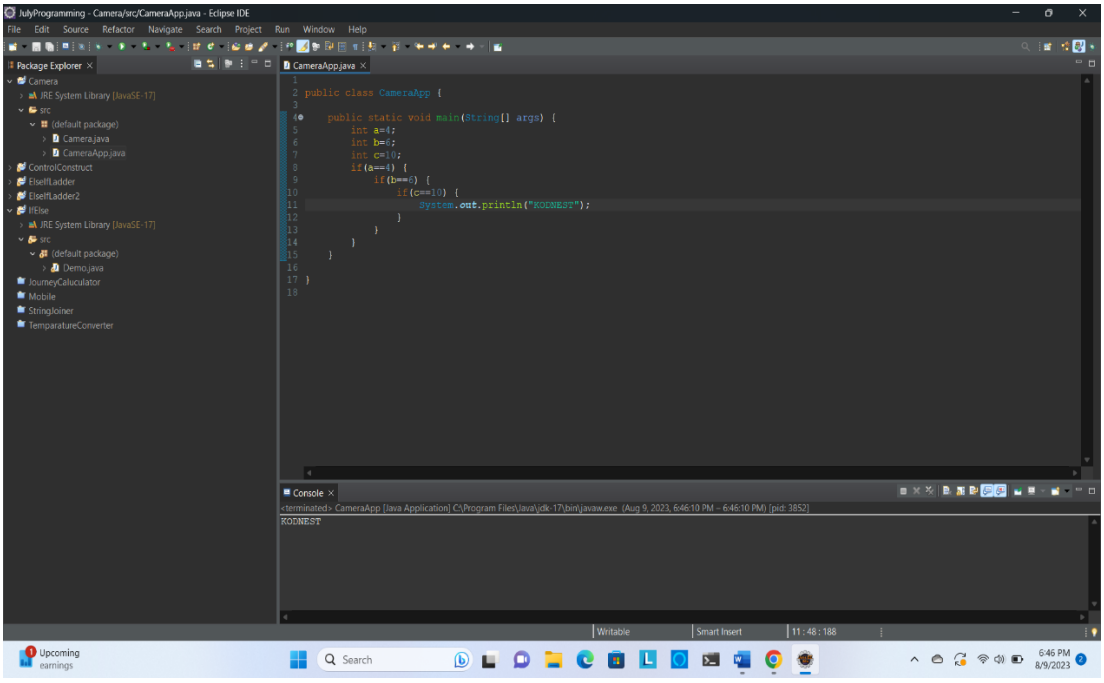


Fig: nested if diagram

Example:

```
Class Demo {
        Public static void main(String []args) {
                if(int a==2) {
                        if(int b==6) {
                                if(int c==10) {
                                        System.out.println(“ Print the value of c”);
                                }
                        }
                }
        }
}
```



In the above example I am just printing the statement, I am not checking any condition.

Nested if-else

The nested if statement works similar to an **if..else statement**. The only difference is that instead of an else statement, there would be another if statement.

Syntax:

```
if(condition1){
    if(condition2){
        //statements2.1
    }
    else{
        //statements2.2
    }
}
else{
    //statements1
}
```

Flow chart

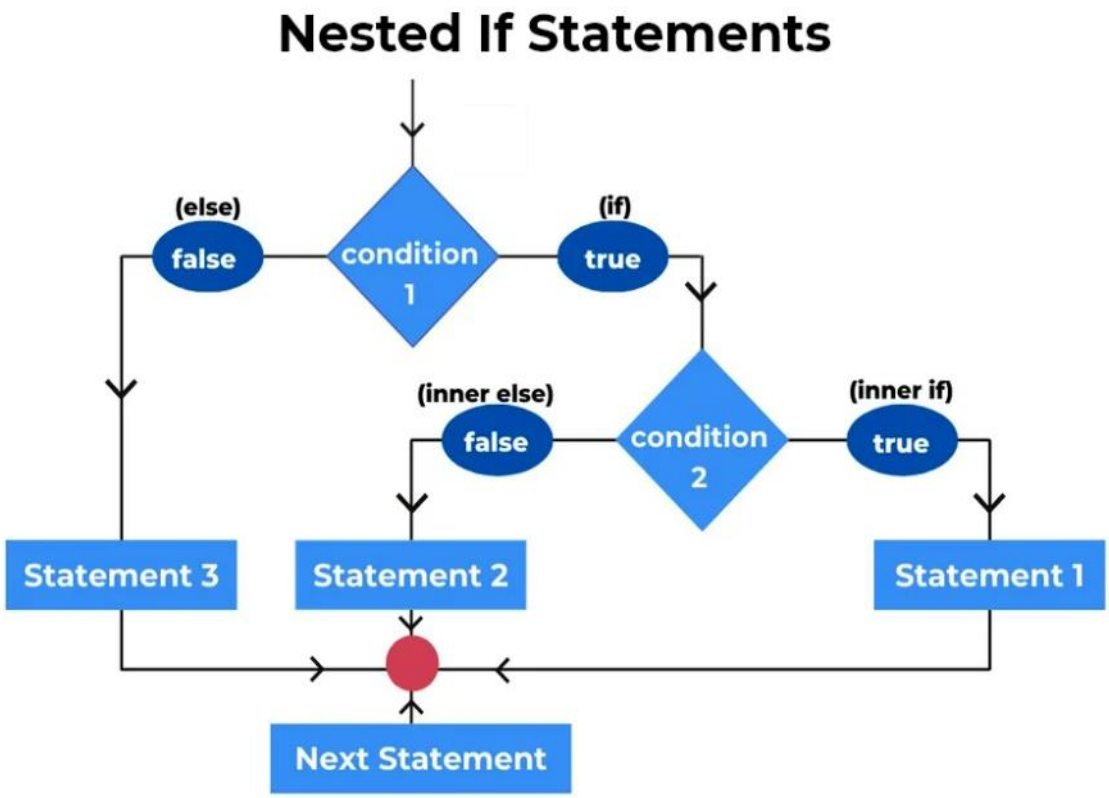
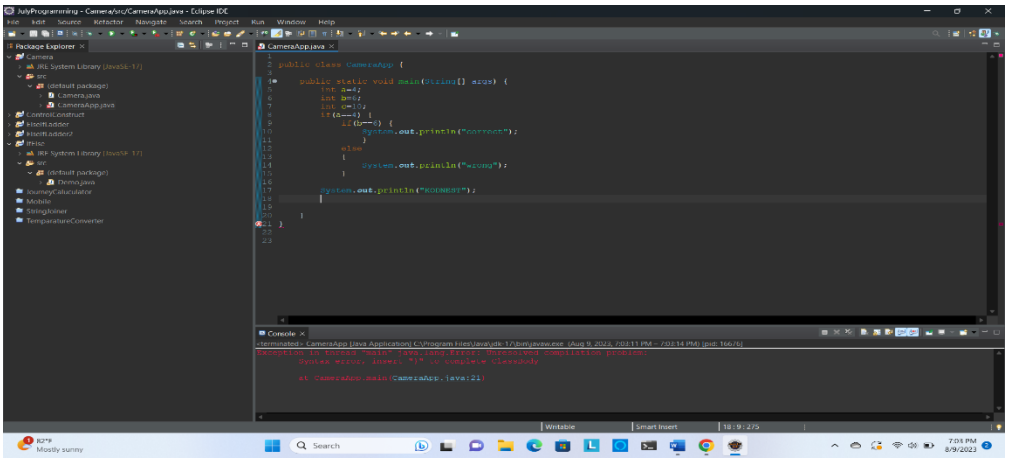


Fig: nested if diagram

Example:

```
Class Demo {
        Public static void main(Syting []args) {
                if(a==12) {
                        if  (b==43) {
                                System.out.println(“Correct”);
                        }
                        else
                        {
                                System.out.println(“Wrong”);
                        }
                else
                {
                        System.out.println(:Wrong”);
                }
                }
        }
}
```



THANK YOU SIR..

Keep Smiling always and also make others to smile…