Java Conditional Statements
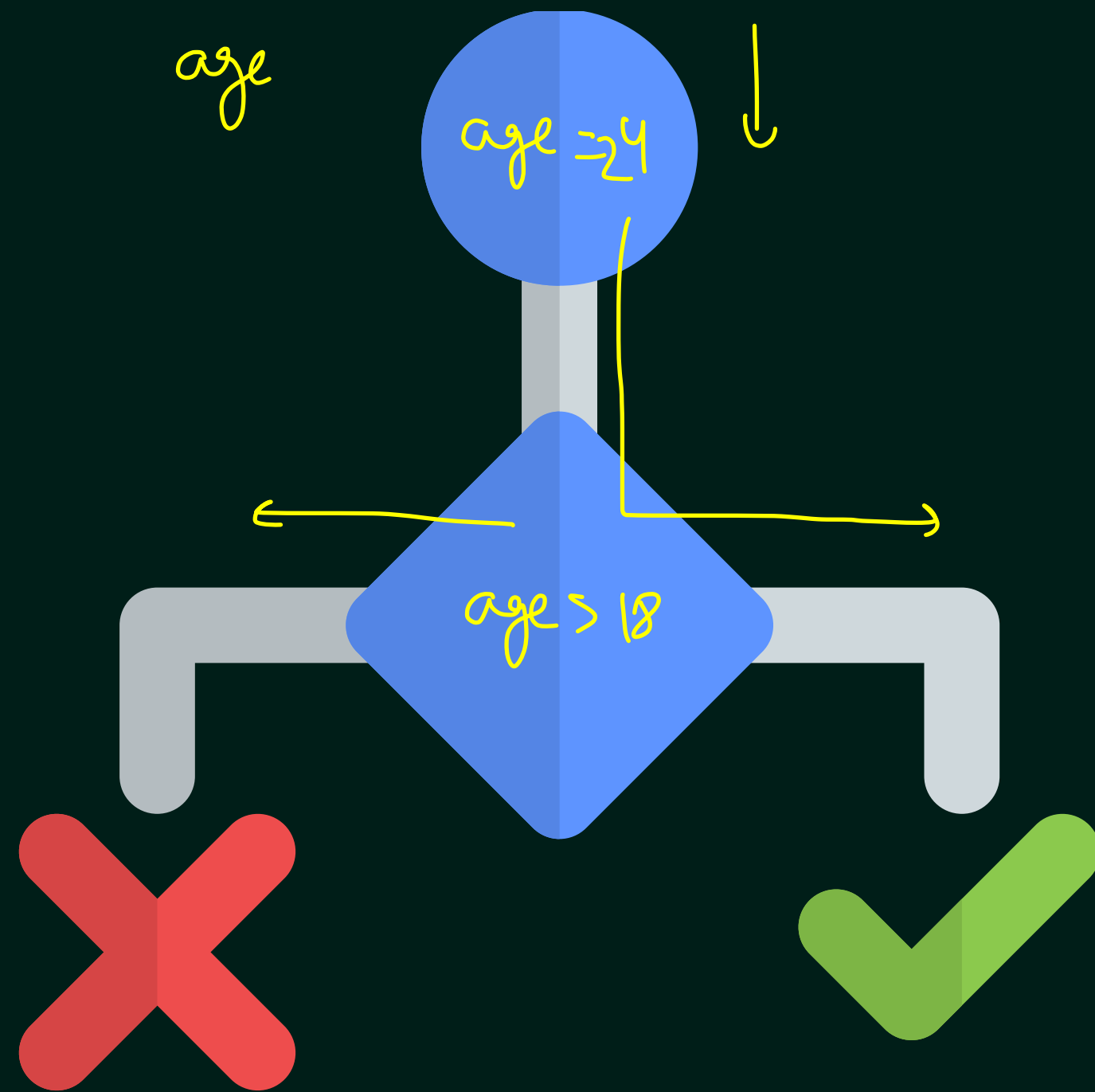
In This Lecture
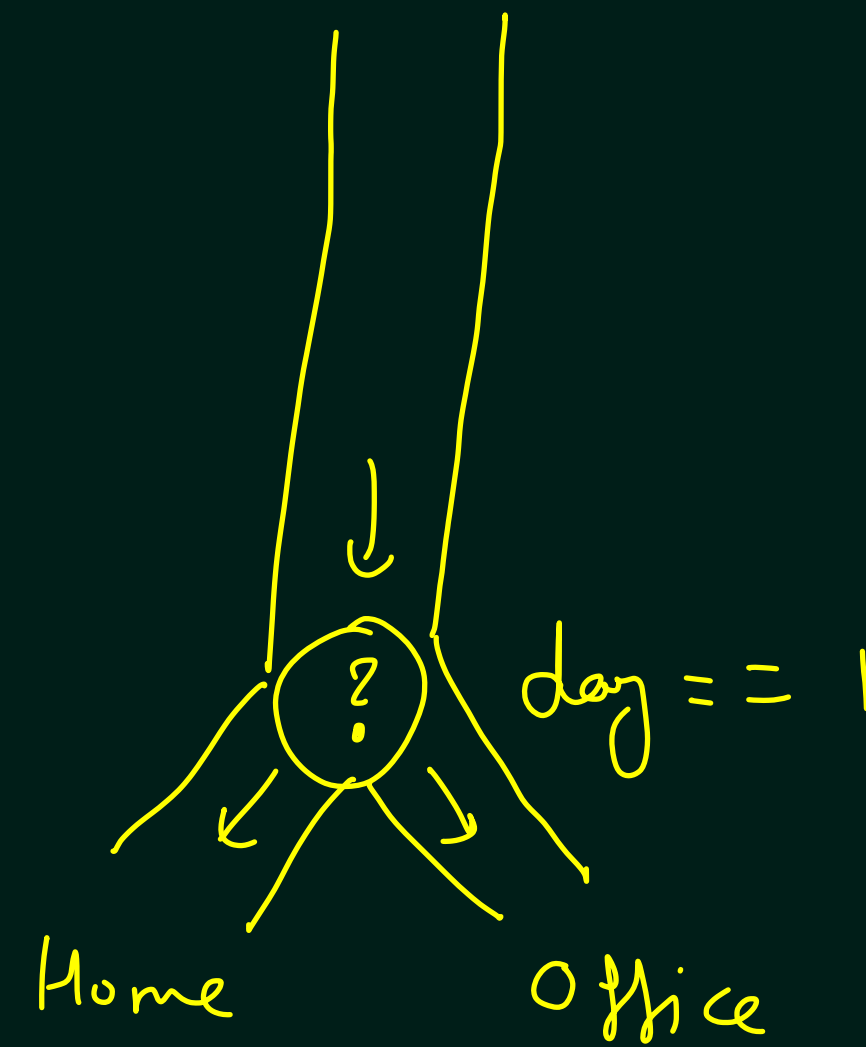
1. if-else statement
2. if-else if- else statement
3. Nested if-else statement
4. Working with the Logical Operators
5. Java Ternary Operator
6. Java Switch statement

Java Conditional Statements

age

age =24

age > 18

$1 \rightarrow \downarrow$
$2 \rightarrow \downarrow$
$3 \rightarrow$

int $a = 4; \downarrow$
sout(a); $\downarrow$

?

day == 1

Home   Office
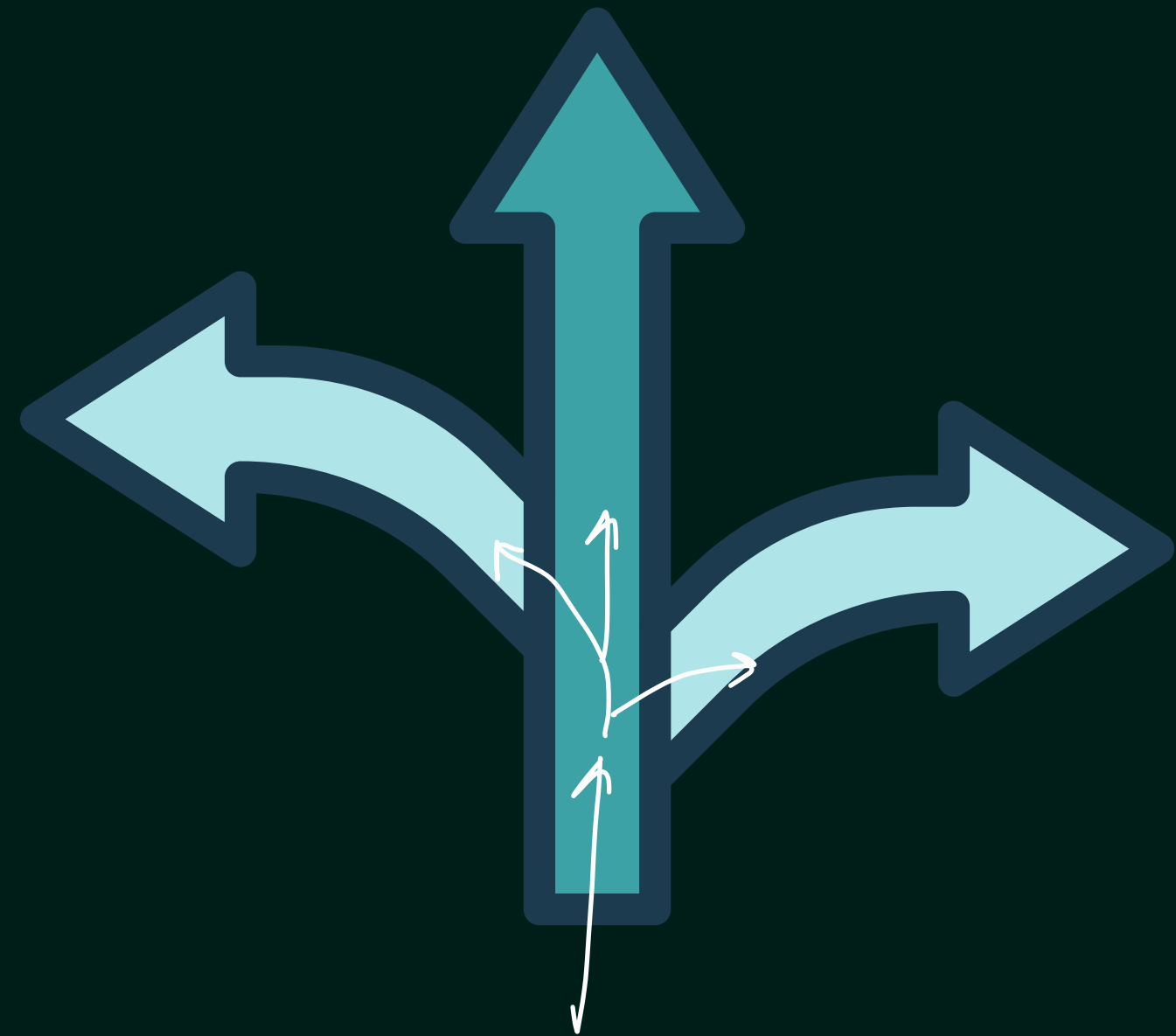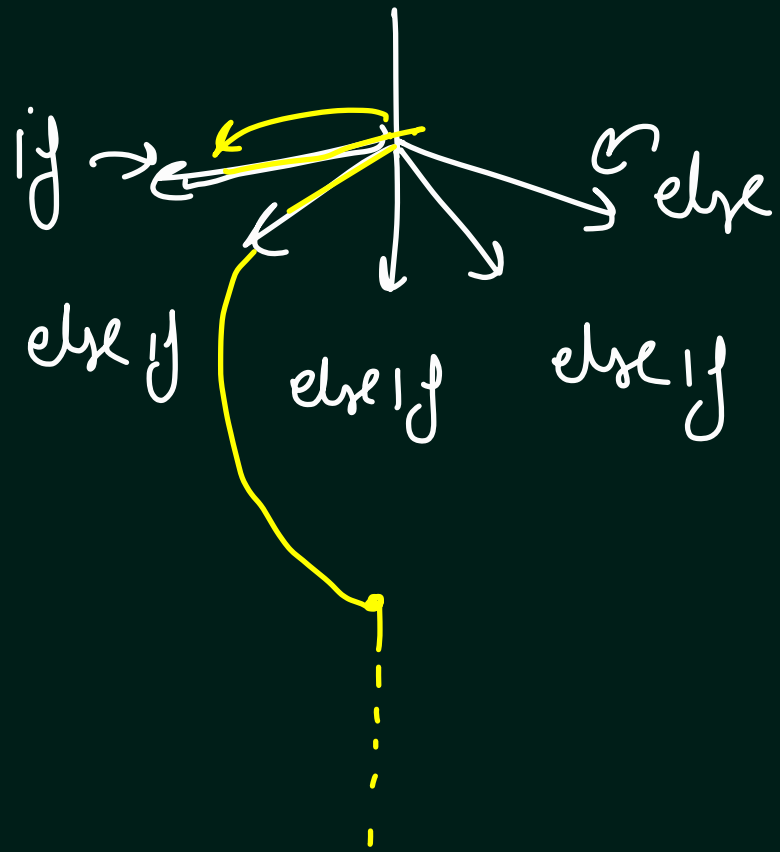
Java if-else statements

The if statement executes a certain section of code if the test expression is evaluated to true.

Statements inside the body of else block are executed if the test expression is evaluated to false. This is known as the if-...else statement in Java.

```
if ( expression) {

    true

} else {


    false


}
```
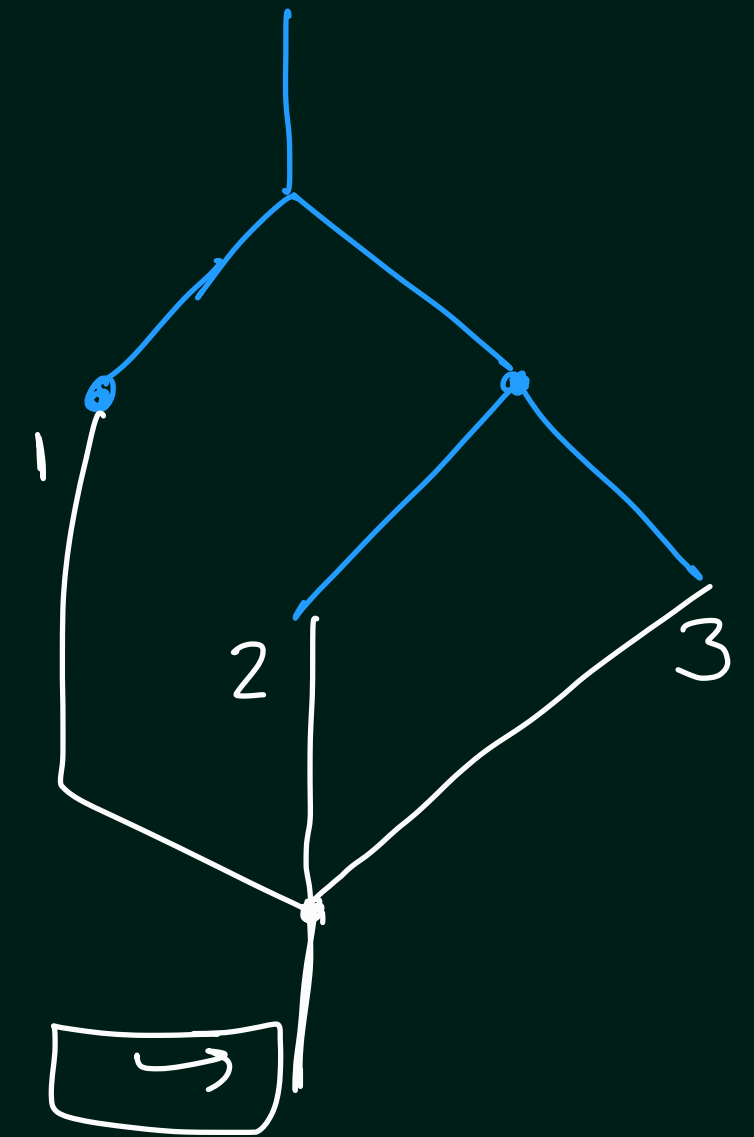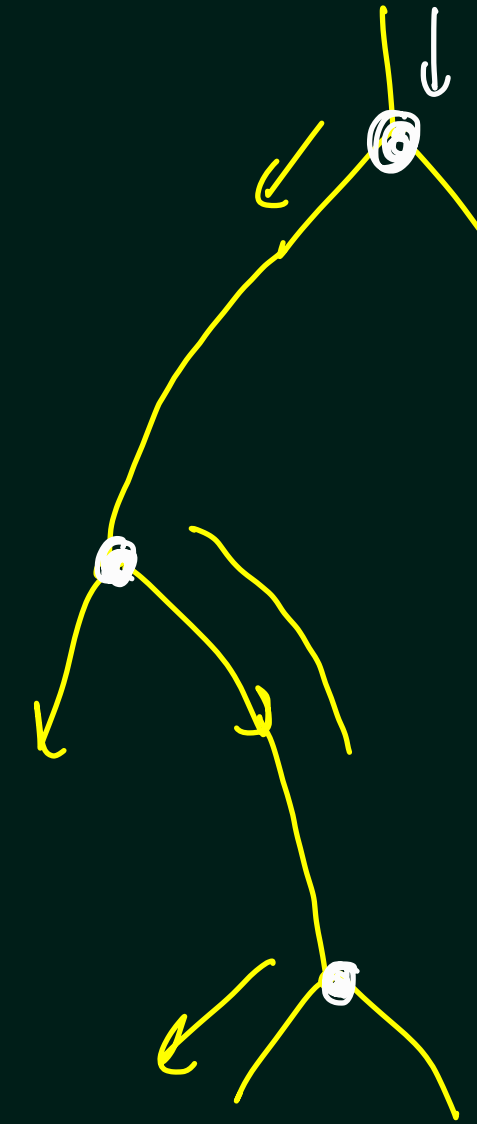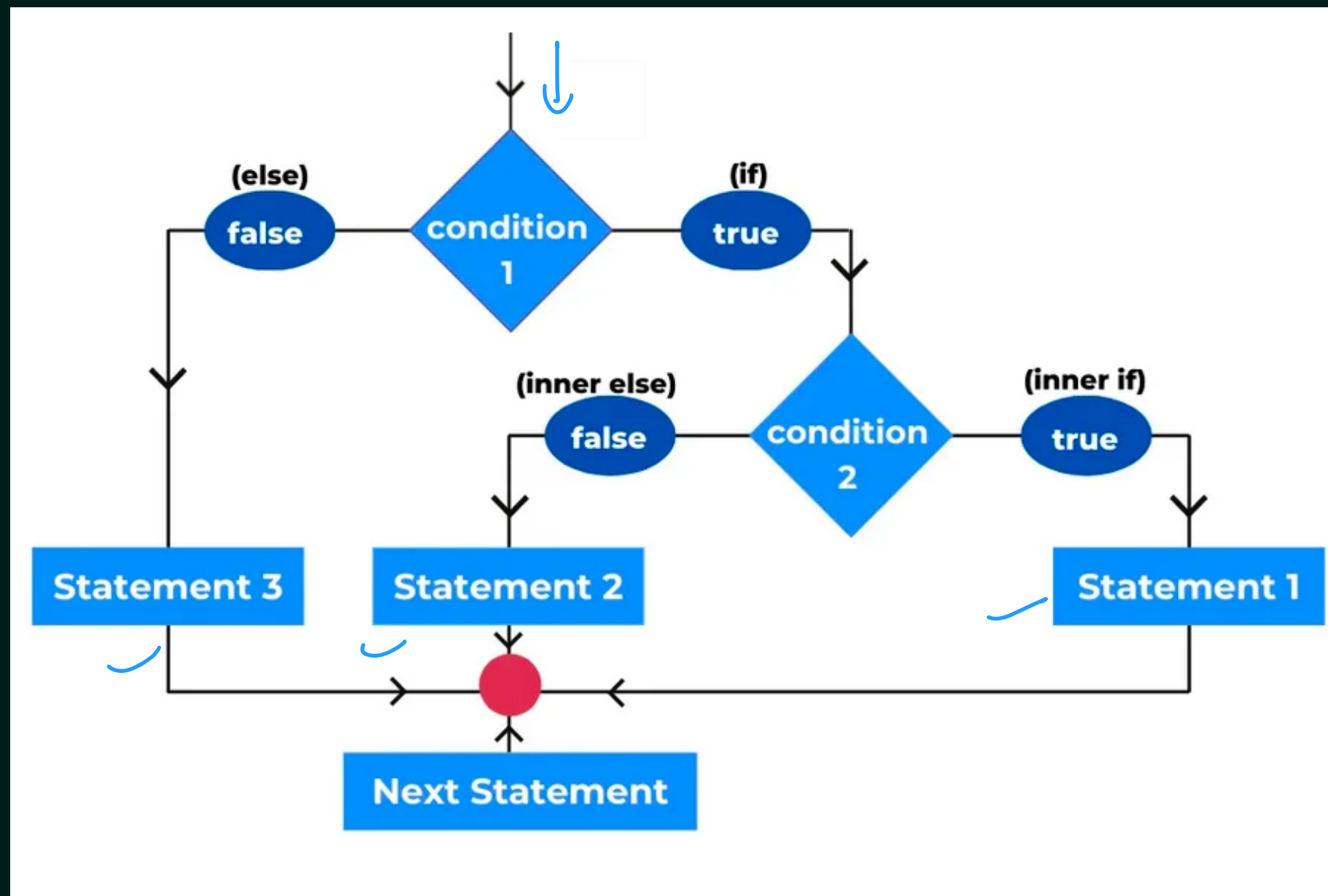
Java if - else if - else statements

In Java, we have an if…else…if ladder, that can be used to execute one block of code among multiple other blocks.

Nested if-else statements

In Java, we have an if...else...if ladder, that can be used to execute one block of code among multiple other blocks.

Java Ternary Operator

A ternary operator evaluates the test condition and executes a block of code based on the result of the condition.

The ternary operator can be used to replace certain types of if...else statements.

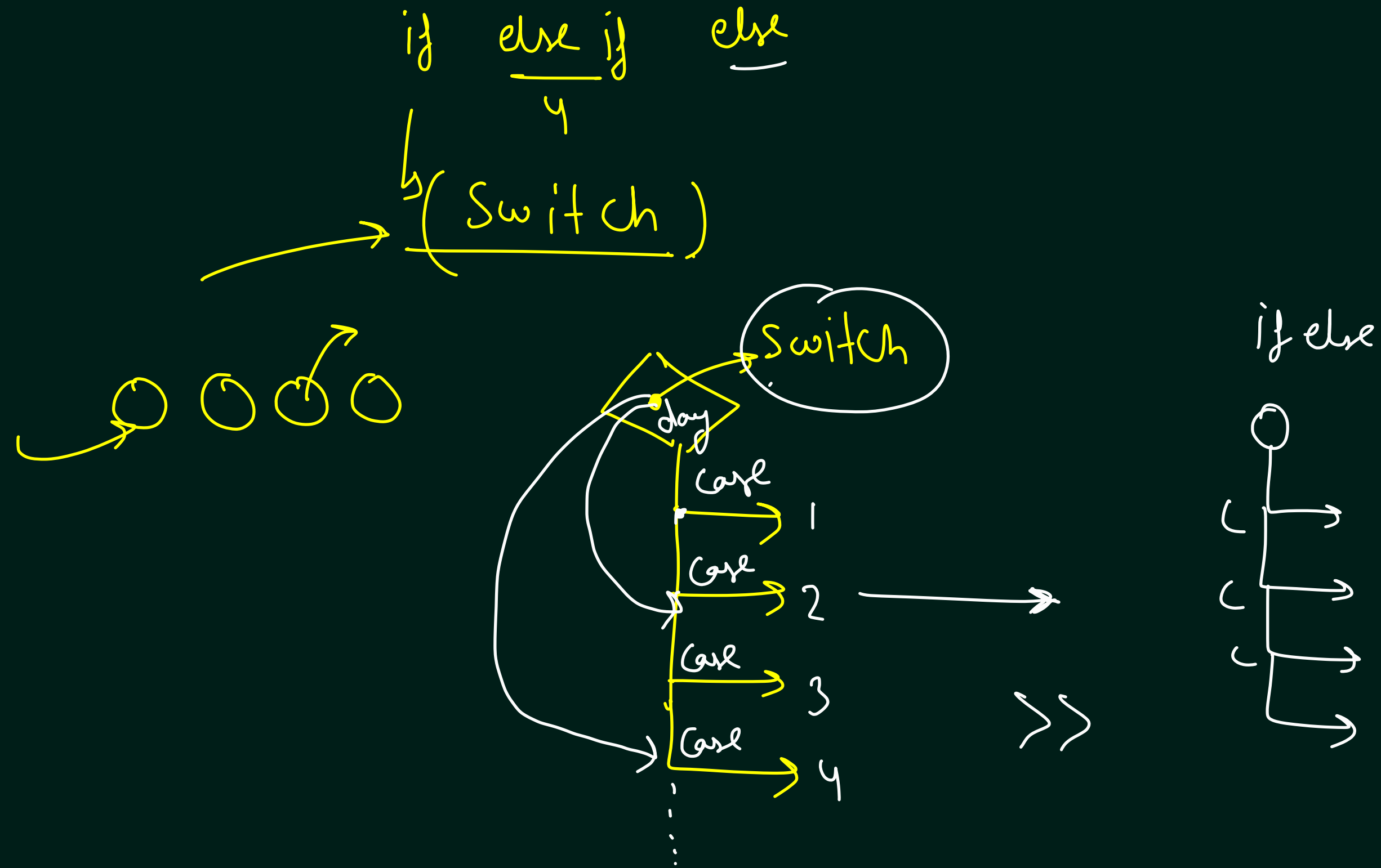**condition ? expression1 : expression2;**

if (condition)
{

} else {

}

nesting

Java switch Statement

if   else if   else
         —————
           4
      ↳
    (Switch)
    —————————

switch

day

switch

Case → 1

Case → 2 ——————→

Case → 3

Case → 4

>>

if else

$\&\&$ $||$ $!$

$$if \; (\; \underline{\quad} \; \&\& \; \underline{\quad} \;)$$

$||$