Nested If-Else in Java

- Selection statements ( if or if-else statement) are Statements.

- When we look at our if-else statements structure, we can have any Java statements in the curly braces. That includes other if or if-else statements.

- For example, lets imagine a game with the following scoring rules. In each round we achieve some number of points which our score will be based on. If our score is a multiple of 5, we’ll score 5 points. Unless our score is greater than 20 and a multiple of 10, in which case our score is 7. Otherwise, if the ones digit is 1-4 we get one point and if its 6-9, we get 3 points.

CHECK IFPRACTICE FOLDER FOR CODING EXAMPLES

- What Java arithmetic operator will best help us figure out whether a number is a multiple of 5?

A. \*

B. /

C. %

D. –

Linear Nested If-Else

- Most of the time when we have problems that need to be solved with multiple options, it’s easy to think of them as just needing more branches in our if else.

(If-else-if)

- The basic structure looks like this:

If (condition 1)

{

// handle case 1

}

Else if (condition 2)

{

// handle case 2

}

Else if (condition 3)

{

// handle case 3

}

…

Else

{

// handle final case

}

- We don’t need a final “if” because all the other options will have been covered.

- Here’s an applicable example: A company gives bonuses based on production as follows:

1000 units or fewer, the bonus is $25

1001 to 3000 units, the bonus is $50

3001 to 6000 units, the bonus is $100

6001 and more, the bonus is $200