

## Unit 07\_010 – If Statement

*Video Length 12:30*

1. What goes inside the (parenthesis) of an if statement?
2. What goes inside the {curly braces} of an if statement?
3. Are the {curly braces} always required? What is the rule about whether they are always required?
4. Does indentation matter to the Java compiler? Why bother to indent?
5. What is the danger of skipping the use of the curly braces?
6. Assume there is a variable called `temperature` that holds the current temperature. Write a statement that will print "It is freezing" if the temperature is below freezing on whatever temperature scale you wish to use.

\*Unit 07\_020 – If ... Else Statement

*Video Length 14:02*

7. When does the "else" clause execute?
8. True or false: In an if...else statement, either the then or the else clause always executes.
9. Does the else clause of an if...else need to have curly braces?
10. Assume there is a variable called `temperature` that holds the current temperature. Write a statement that will print "It is freezing" if the temperature is below freezing. Write "Your plants are safe" if the temperature is not below freezing. Be sure to use proper indentation and capitalization.

\*Unit 07\_025 – Conditional Statement

*Video Length 9:40*

11. True or False, The conditional expression should only be used in situations where the expression returns a value.
12. True or False, The conditional expression should be used in situations where it prints one of two alternative statements.
13. Rewrite the following as an if...else statement.

```
message = (isRaining) ? "Inside" : "Outside";
```

## Unit 07\_030 – Style

### Video Length 7:30

14. Rewrite the following code in better style.

```
if(temperatureOK == true)\{
```

15. Rewrite the following code in better style.

```
if(temperatureOK == false)\{
```

16. Rewrite the following code in better style.

```
if(temperature >= 70 && temperature <=100)
    swimmingOK = true;
else
    swimmingOK = false;
```

17. What is unit testing?

## Unit 07\_040 – Comparing Strings

### Video Length:

## Unit 07\_050 – It's about time

### Video Length:

18. What are some reasons that dates and times are hard?

19. How does Java store times and dates?

20. Define the following terms

- Epoch
- GMT
- UTC
- millisecond
- nanosecond

21. How long is each of the following in seconds?

- 1ms
- 500 ms
- 1000 ms
- 6000 ms

## **Unit 07\_060 – Dates and Times in Java**

**Video Length:**

## **Unit 07\_070 – Swapping**

**Video Length: 5:34**

22. Assume that there are two String variables `person1` and `person2`. Write the code needed to "swap" the names, so that `person1` now has the name that used to be in `person2`, and `person2` now holds the name that used to be assigned to `person1`.

## Unit 07\_080 Nested If

**Video Length:**

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23. Comment or ask questions here if there are any issues you would like for the instructor to address. It is not necessary to answer if you do not have questions.