Name: _____

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: 15:36

18. Suppose there are two string variables named s1 and s2. Write the code that will print "Same" if they are equal. Ignore the case. You do not have to do anything if they are equal.

19. Suppose there are two string variables named s1 and s2. Write the code that will print "Different" if they are equal. Ignore the case. DO NOT WRITE ANYTHING IF THEY ARE EQAUL. (Hint: ! is probably your friend here).

20. What does compareTo return? (There are three answers)

21. Suppose there are two string variables named s1 and s2. Write the code that will print "S1 is smaller" if s1 would come alphabetically before s2. Ignore the case. You do not have to do anything if they are equal or s2 is less than s1.

Unit 07_050 – It's about time

Video Length: 17:11

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

23. How does Java store times and dates?

24. Define the following terms

   • Epoch

   • GMT

   • UTC

   • millisecond

   • nanosecond

25. 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: 17:06

Unit 07_070 – Swapping

Video Length: 5:34

26. 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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27. 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.