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Enthuware OCA Test 5 Review

It is important to use your study time effectively by identifying your weaknesses. Go through all the explanations for the questions on yesterday's enthuware exam and answer the following questions.

1. What types of questions were the hardest for you? Give the problem number for one of them. Which Test objective does it fall under?

- For test 5, the type of questions that were hardest for me were questions from the “Using Operators and Decision Constructs” category. Specifically, I was confused about question 4 and using the ternary operator. I learned a lot about ternary operators from the explanation on Enthuware. I learned that (1) the second and third operands of the ternary operator can call methods if the return types of the methods are compatible with each other. For example, if one method returns a byte and the other returns a short, then the type of the conditional expression is short. If the types are not compatible and cannot be made compatible through assignment conversion, then the code will not compile. Also, only one of either the second or third operands can be null. The expression’s type will be the type of the non-null operand’s type. The code will not compile if both operands are null.

2. What was a question you got right, but when you read the solution, you realized your reasoning was off? (Give the problem number and explanation.)

- A question I got right with an inadequate understanding is question 15. I didn’t have a thorough understanding of how Java checks for variables within a method. I learned that if a method is using a variable: (1) java will check if the variable exists locally first, (2) if it doesn’t exist locally, java will check the instance, (3) variable of the instance and method can be called the same name, (4) unless specific with the this keyword, if the instance and local variables have the same name, a mutation of the local variable will not affect the instance variable.

3. Find one resource for learning more about the topic you struggled on such as method overloading [https://www.digitalocean.com/community/tutorials/overriding-vs-overloading-in-javaLinks to an external site.](https://www.digitalocean.com/community/tutorials/overriding-vs-overloading-in-java) and put the link here and share the link with your classmates.

- I learned a lot from Dr. Sean Kennedy’s video. He walks through the steps of how Java processes the code from question 15. He explains how the variables with the same name are of different scopes and how the variables are read by Java. It is published on Enthuware and on YouTube at: <https://www.youtube.com/watch?v=gP29NT0MRU0>. He also works through all the other options to compare what will happen in each scenario.