Unit 08_010 – Shortcut Assignment Operators

Video Length 10:00

1. Rewrite each of the following using the shortcut assignment operators.

   - `n = n +1;`

   - `count = count - 2;`

   - `number = number * 2;`

   - `i = i / 2;`

   - `q = 5 + q;`

2. Which of the shortcut operators in this unit is used most often.

Unit 08_020 – Shortcut Operators Gone Wild!

Video Length 24:03

3. Rewrite the following statements using the increment and decrement operators.

   - `i += 1;`

   - `count -= 1;`

4. Rewrite the following statements using the increment and decrement operators. ***But this time use two different increment and decrement operators.***

   - `i += 1;`

   - `count -= 1;`

5. In your own words, describe the difference between prefix and postfix operators.

6. What is a side effect in programming?

7. What would be printed by the following loop?

```
int i = 0;
while(i < 5){
    System.out.print(i++);
}
```


8. What are two ways to protect your code from unintended side effects when using increment and decrement operators?

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9. What is the practical difference between i++ and ++i whe the increment operators are the only items in the statement? (trick question)

10. The beginning of the video made it look like the increment operator was just a short cut for the +=1 operation. Explain why the increment and decrement operators are not really just shortcuts of shortcuts. (This is not discussed explicitly in the videos, so you may need to think about it.)

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11. 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.