Quiz4 - Results   ✕

Attempt 1 of 1

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Attempt Score	**8 / 15 - 53.33 %**
Overall Grade (Highest Attempt)	**8 / 15 - 53.33 %**

Question 1   **1 / 1 point**

_____ is the code with natural language mixed with Java code.

✔ 🟢 pseudocode

⚪ java program

⚪ a flowchart diagram

⚪ a java statement

Question 2   **0 / 1 point**

Which of the Boolean expressions below is **INCORRECT**?

⚪ !(x > 0) && (y > 0)

⚪ (x > 0) || (y < 0)

✖ ⚪ (true) && (3 >= 4)

➡ 🟢 (-10 < x < 0)

Question 3   **2 / 2 points**

Code 1:
  int number = 45;
  boolean even;

```
if (number % 2 == 0)
    even = true;
else
    even = false;
```

Code 2:
```
int number = 45;
boolean even = (number % 2 == 0);
```

○ Code 1 has compile errors.

○ Code 2 has compile errors.

✓ ● Both Code 1 and Code 2 are correct, but Code 2 is better.

○ Both Code 1 and Code 2 have compile errors.

Question 4   1 / 1 point

Suppose income is 4001, what is the output of the following code?

```
if (income > 3000) {
    System.out.println("Income is greater than 3000");
}
else
    if (income > 4000) {
        System.out.println("Income is greater than 4000");
    }
```

✓ ● Income is greater than 3000

○ no output

○ Income is greater than 3000 followed by Income is greater than 4000

○ Income is greater than 4000

Question 5   0 / 2 points

```
if (x < 100) && (x > 10)
    System.out.println("x is between 10 and 100");
```

○ The statement has compile errors because (x<100) && (x > 10) must be enclosed inside parentheses and the println(...) statement must be put inside a block.

➡ ● The statement has compile errors because (x<100) && (x > 10) must be enclosed inside parentheses.

○ The statement compiles fine, but has a runtime error.

✗ ○ The statement compiles fine.

Question 6   0 / 2 points

What is y after the following switch statement is executed?

```
int x = 3; int y = 4;
switch (x + 3) {
   case 6: y = 0;
   case 7: y = 1;
   default: y += 1;
}
```

○ 3

✗ ○ 0

➡ ● 2

○ 1

Question 7   1 / 1 point

What is the output of the following code?

```
int x = 0;
if (x < 4) {
    x = x + 1;
}
System.out.println("x is " + x);
```

○ x is 0

✔ ● x is 1

○ x is 4

○ x is 5

Question 8   2 / 2 points

Assume x = 4 and y = 5, which of the following is true?

✔ ● x < 5 || y < 5

○ x < 5 && y < 5

○ x > 5 || y > 5

○ x > 5 && y > 5

Question 9   1 / 1 point

```
boolean even = false;
if (even) {
    System.out.println("It is even!");
}
```

○ The code is wrong. You should replace if (even) with if (even == true).

○ The code is wrong. You should replace if (even) with if (even = true).

✓ ● The code displays nothing.

○ The code displays It is even!

Question 10   0 / 2 points

What is the output from System.out.println((int)Math.random() * 4)?

➡ ● 0

○ a random int number between 0 and 4 (excluding)

○ unknown

✗ ○ a random int number between 0 and 4

Done