BCDE223 SYNTAX TEST #4A

Student Name	Marks out of 10
Markers	
Closed book, closed directory, no notes, individual test.	
Create a class called NumberHider to play a number	guessing game.
• If the class is created with no parameters it should and 99.	d generate a random number between 0
Hint: To produce an int between 0 and 9	99, use:
<pre>int secretNumber = (int)(Math.rand</pre>	lom()*100);
• If the class is created with an int parameter, that s to be guessed.	hould be the secret number which needs
• The player inputs his/her guess, and the program lower" or "You got it in n trials"	shall response with "Try higher", "Try
Two constructors provided Protected attributes testLowGuess passes testHigh Guess passes testCorrectGuess passes testGuessCounting passes Appropriate use of at least 1 build-in type Correct use of the most appropriate Java if statements Correct use of ++ Correct seeding of a random number	
NOTE:	
Do NOT create a ModelView, a ConsoleView, a Ma	in controller or an ExerciseController
INSTEAD you MUST use the UnitTest code provide	ed over the page

```
import static org.junit.jupiter.api.Assertions.assertEquals;
import org.junit.jupiter.api.Test;
public class NumberHiderTest {
    private NumberHider aNumberHider;
    @Test
    public final void testLowGuess() {
        aNumberHider = new NumberHider(42);
        String expected = "Try higher";
        String actual = aNumberHider.makeGuess(1);
        String errorMessage = "Expected " + expected + " but got " + actual;
        assertEquals(expected, actual, errorMessage );
    }
    @Test
    public final void testHighGuess() {
        aNumberHider = new NumberHider(42);
        String expected = "Try lower";
        String actual = aNumberHider.makeGuess(43);
        String errorMessage = "Expected " + expected + " but got " + actual;
        assertEquals(expected, actual, errorMessage );
    }
    @Test
    public final void testCorrectGuess() {
        aNumberHider = new NumberHider(42);
        String expected = "You got it in 1 trials!";
        String actual = aNumberHider.makeGuess(42);
        String errorMessage = "Expected " + expected + " but got " + actual;
        assertEquals(expected, actual, errorMessage );
    }
    @Test
    public final void testGuessCounting() {
        aNumberHider = new NumberHider(42);
        String expected = "You got it in 3 trials!";
        aNumberHider.makeGuess(40);
        aNumberHider.makeGuess(41);
        String actual = aNumberHider.makeGuess(42);
        String errorMessage = "Expected " + expected + " but got " + actual;
        assertEquals(expected, actual, errorMessage );
    }
}
```