TestNotes/pset2/BarCodeTest.java

```java
 1  // BarCodeTest.java
 2
 3  /**
 4   * PSET2 #4
 5   * Test for BarCode class creating instances with different inputs,
 6   * validating their creation, and displaying the resulting bar codes and ZIP codes.
 7   * Handles potential IllegalArgumentExceptions.
 8   *
 9   * @author Kuljit Takhar
10   * @version October 3, 2023
11   *
12   */
13
14  public class BarCodeTest {
15      public static void main(String[] args) {
16
17          // An array of test inputs
18          String[] tester = {
19              "02138",
20              "||:|:::|:|:||:::::||:|::|:::|||",
21              "||:::||::|:::|:|:|::|||:::|:|::|",
22              "||:::||::|:::|:|:|::|||:::||:::|",
23              "||:::||::|:::|:|:|::|||:::|:::|",
24              "||:|:::|:|:||:::::||:|::|:::||:",
25              "0231a"
26          };
27
28          // Loop through the test inputs
29          for (String input : tester) {
30              System.out.println();
31              try {
32                  System.out.println("Creating bar code with " + input);
33                  BarCode bc = new BarCode(input); // Attempt to create a BarCode
   instance
34                  System.out.println("\tCode created!");
35                  System.out.println("\tBar code is : " + bc.getBarCode() + "; zip is :
   " + bc.getZipCode());
36              } catch (IllegalArgumentException iae) {
37
38                  // Handle any IllegalArgumentException thrown during object creation
39                  System.out.println(iae.getMessage());
40              }
41              System.out.println();
42          }
43      }
44  }
45
```