Lab 6

Requirements:

- Create a Java project named yourStudentId_OOP_Lab6

- Read instructions and create classes needed. You are supposed to add 2 classes (*Tester, and IntegerNameConverter*) to the project.

- Make sure your classes correctly implement the public interfaces.

1. **The main method in *Tester* class**
   - Use a Scanner object named *inputScanner* to read the user's input.
   - Assign the value to the *input* variable.
   - Create an *IntegerNameConverter* object named *converter*.
   - Use *converter* object to call the *intName* method and print out as *Sample output*.

2. **Create *IntegerNameConverter* class**

<table>
<tr><td colspan="2" align="center">IntegerNameConverter</td></tr>
<tr><td>Modifier and type</td><td>Method (or Variable) and description</td></tr>
<tr><td colspan="2">Instance variable</td></tr>
<tr><td>int</td><td>num
Value to be converted into English name.</td></tr>
<tr><td colspan="2">Constructor</td></tr>
<tr><td colspan="2">IntegerNameConverter (int num)
Constructs a converter object with given number.</td></tr>
<tr><td colspan="2">Instance methods</td></tr>
<tr><td>String</td><td>intName()
a. Write a decision to call the corresponding method to get the name of the digit.
b. If the value is between 11 and 19, it will be printed as eleven, twelve, thirteen, ..., nineteen.
c. Return English name of the digit.</td></tr>
<tr><td>String</td><td>digitName(int num)
a. Takes an Integer from 1 – 9
b. Return a String ("one", "two", …, "nine")</td></tr>
<tr><td>String</td><td>tensName(int num)
a. Takes an Integer from 2 – 9
b. Return a String ("twenty", "thirty", …, "ninety")</td></tr>
<tr><td>String</td><td>teenName(int num)
a. Takes an Integer from 10 – 19
b. Return a String ("ten", "eleven", …, "nineteen")</td></tr>
</table>

Sample output:

> **(Lab6)**
> Please enter a positive integer < 1000:999
> nine hundred ninety nine

Submission: Submit your project as **".zip file"** via Moodle. No other submissions will be graded.

Reminder: Please zip the whole project

Deadline: Tomorrow's midnight (for both Mon56 and Tue23)