Lesson 8 Assignment

I'd like you to add one more new exception class to your temperature conversion project: InvalidTemperatureException. You'll throw that exception when your user tries to store a temperature that's below absolute zero in a Temperature object. Once you've created the exception class, you can use it in several ways.

Here's one way to do it:

1. Create a new class in the project, InvalidTemperatureException, that's similar to InvalidTemperatureTypeException but has a different name.

2. Add a check for valid temperatures to each of the set methods: setDegreesFahrenheit(), setDegreesCelsius(), and setDegreesKelvin(). You can use a call to isTemperatureValid() to do that check. If the temperature isn't valid, throw an InvalidTemperatureException. You'll also need to add a throws clause to the method declaration.

3. Since the constructor could call the set method and get back the exception, you'll need to add the InvalidTemperatureException to the constructor's throws clause.

4. Last, add a second catch block to the try-catch code in the main() method so that the program handles both exceptions there.

If you'd like to compare your code to mine, here are the four classes in my project now.

See TemperatureDriverClass

See Temperature Class

See InvalidTemperatureTypeException Class

See InvalidTemperatureException Class