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File - C:\Users\ctqdt\IdeaProjects\CourseScheduler\src\com\company\data\person\PersonAddress.java
 1 /**
    * <u>@author</u> Caroline Ta
 2
    * <u>@since</u> 05.19.2020
 3
 4
 5 package com.company.data.person;
 7
   import org.jetbrains.annotations.NotNull;
 8
 9 /**
    * The type Person address.
10
11
12 public class PersonAddress implements Comparable<PersonAddress>{
13
        * The street.
14
15
16
       private String street;
17
        * The city.
18
19
20
       private String city;
21
        * The state.
22
23
24
       private String state;
25
        * The zip code.
26
27
28
       private String zip;
29
30
       // CONSTRUCTORS
31
       // -----
32
33
       /**
34
35
        * Instantiates a new Person address.
36
37
       public PersonAddress() {
38
39
       }
40
41
42
        * Instantiates a new Person address.
43
        st <u>@param</u> street the street
44
45
        * <u>@param</u> city the city
46
        * @param state the state
47
        * <u>@param</u> zip
                        the zip
        * <u>@throws</u> Exception the exception
48
49
       public PersonAddress(String street, String city, String state, String zip) throws Exception {
50
51
           setStreet(street);
52
           setCity(city);
53
           setState(state);
54
           setZip(zip);
55
       }
56
57
       // ACCESSORS - GETTER METHODS
58
59
60
61
        * Gets street.
62
63
        * @return the street
64
65
66
       public String getStreet() {
67
           return street;
68
69
70
       /**
```

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 71
         * Gets city.
 72
         * @return the city
 73
 74
 75
        public String getCity() {
 76
            return city;
 77
 78
 79
         * Gets state.
 80
 81
         * @return the state
 82
 83
 84
        public String getState() {
 85
            return state;
 86
 87
        /**
 88
         * Gets zip.
 89
 90
 91
         * @return the zip
 92
 93
        public String getZip() {
 94
            return zip;
 95
        }
 96
        // -----
 97
 98
        // MUTATORS - SETTER METHODS
 99
100
101
         * Sets street.
102
103
         * @param street the street
104
105
         * @throws Exception the exception
106
107
        public void setStreet(String street) throws Exception {
            checkStringValue(street, "street");
108
109
            this.street = street;
        }
110
111
112
         * Sets city.
114
         * @param city the city
115
116
         * @throws Exception the exception
117
        public void setCity(String city) throws Exception {
118
            checkStringValue(city, "city");
119
120
            this.city = city;
121
        }
122
123
         * Sets state.
124
125
         st <u>@param</u> state the state
126
         * <u>@throws</u> Exception the exception
127
128
        public void setState(String state) throws Exception {
129
            checkStringValue(state, "state");
130
131
            this.state = state;
132
        }
133
134
         * Sets zip.
135
136
137
         * @param zip the zip
         * <u>@throws</u> Exception the exception
138
139
140
        public void setZip(String zip) throws Exception {
```

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141
             checkStringValue(zip, "zip");
142
             this.zip = zip;
143
         }
144
145
146
        // FUNCTIONALITY METHODS
147
148
149
         * Check string value.
150
151
          * <u>@param</u> valueString the value string
152
153
          * @param attributeName the attribute name
154
          * @throws Exception the exception
155
         private void checkStringValue(String valueString, String attributeName) throws Exception {
156
157
             if (valueString == null || valueString.trim().equals("")) {
                 throw new Exception(attributeName + " must be non-null and non-empty");
158
159
160
         }
161
162
163
         // OVERRIDDEN METHODS
164
165
166
          * Override toString method.
167
168
169
          * @return a string description for the PersonAddress class.
170
171
         @Override
         public String toString()
172
173
             return street + " St, " + city + ", " + state + ", " + zip;
174
175
         }
176
177
          * Override compareTo method.
178
179
          st <u>@param</u> otherPerson other person address
180
            <u>@return</u> comparision result (i.e -1, 0) between PersonAddresses
181
182
         @Override
183
         public int compareTo(@NotNull PersonAddress otherPerson) {
184
185
             if (this.street.equalsIgnoreCase(otherPerson.street)
186
                      && this.city.equalsIgnoreCase(otherPerson.city)
187
                      && this.state.equalsIgnoreCase(otherPerson.state)
                      && this.zip == otherPerson.zip) {
188
189
                 return 0;
190
             }
191
192
             else
193
             {
194
                 return -1;
195
             }
196
         }
197
198
          * Override equals method.
199
200
          * <u>@param</u> obj object
201
202
            @return the result of thisPersonAddress equals otherPersonAddress as a boolean
203
204
         @Override
         public boolean equals(Object obj) {
205
206
             if (obj == null || !(obj instanceof PersonAddress)) {
207
                 return false;
208
             }
209
             return compareTo((PersonAddress) obj) == 0;
210
```

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