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C:\Users\Dan\Box Sync\2014-2015 Summer\CSCI-C 490...)\Project\Phase 3\Ph3\PublicFacility.cs
```

```
1 /*-----
2 * Author: Dan Cassidy
            2015-06-17
3 * Date:
  * Assignment: cView-P3
  * Source File: PublicFacility.cs
  * Language:
            C#
7 * Course:
             CSCI-C 490, C# Programming, MoWe 08:00
8 * Purpose:
            Contains the PublicFacility class, derived from the Item abstract class, and
            supporting methods.
10 -----*/
11
12 using System;
13 using System.Collections.Generic;
14 using System.Ling;
15 using System.Text;
16 using System.Threading.Tasks;
17
18 namespace Ph3
19 {
20
    public class PublicFacility: Item
21
       /*-----
22
23
        * Type: Helper Constants
        * Purpose:
24
25
       public new const FieldMenuHelper FieldMin = FieldMenuHelper.Name;
26
       public new const FieldMenuHelper FieldMax = FieldMenuHelper.Back;
27
28
       public const int FieldOffset = 0;
29
30
       /*-----
        * Type: Private Fields
31
32
       -----*/
33
       private string itemType = "publicfacility";
34
       /*-----
35
        * Type: Constructor
36
        * Purpose: Basic no-parameter constructor.
37
        * Input: Nothing.
38
                      .----*/
39
40
       public PublicFacility()
41
42
          // Nothing else to do.
43
44
       /*-----
45
        * Type:
46
              Constructor
47
        * Purpose: Copy constructor.
48
        * Input: PublicFacility fromItem, reference to the other PublicFacility from which fields
49
               should be copied.
50
                              -----*/
51
       public PublicFacility(PublicFacility fromItem)
52
          : base(fromItem)
53
       {
54
          itemType = fromItem.itemType;
55
56
       /*-----
57
58
        * Purpose: Constructor that will fill all the properties except ItemID and ItemType.
59
        * Input:
                string name, contains the desired Name for the object.
60
        * Input:
                string type, contains the desired Type for the object.
61
62
        * Input:
                string streetAddress, contains the desired StreetAddress for the object.
63
        * Input:
                string city, contains the desired City for the object.
        * Input:
64
                string state, contains the desired State for the object.
        * Input:
                string zip, contains the desired Zip for the object.
65
        * Input:
66
                string latitude, contains the desired Latitude for the object.
```

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67
                   string longitude, contains the desired Longitude for the object.
                   string phone, contains the desired Phone for the object.
68
          * Input:
69
          * Output: Nothing.
70
71
         public PublicFacility(string name, string type, string streetAddress, string city, string state ≰
72
             string zip, string latitude, string longitude, string phone)
73
             : base(name, type, streetAddress, city, state, zip, latitude, longitude, phone)
74
          {
75
             // Nothing else to do.
76
         }
77
          /*-----
78
79
          * Type: Auto-implemented Properties
80
          -----*/
          public override int ItemID { get; set; }
                                                    // Item ID
81
82
83
         public override string Name { get; set; }
                                                    // Facility Name
         public override string Type { get; set; }
         public override string Type { get; set; } // Facility Type
public override string StreetAddress { get; set; } // Street Address
84
85
86
          public override string City { get; set; } // City
          public override string State { get; set; }
87
                                                   // State
88
          public override string Zip { get; set; }
                                                   // Zip Code
                                                   // Latitude
89
          public override string Latitude { get; set; }
          public override string Longitude { get; set; }
90
                                                    // Longitude
91
         public override string Phone { get; set; }
                                                    // Phone Number
92
          /*-----
93
94
          * Name:
                  ItemType
          * Type:
95
                  Property
96
          * Purpose: Provides access to the itemType field.
97
          -----*/
98
          public override string ItemType
99
          {
100
             get
101
             {
102
                return itemType;
             }
103
104
             set
105
             {
106
                // Do nothing.
107
             }
108
         }
109
          /*-----
110
          * Name:
111
                   ToString
          * Type: Method
112
113
          * Purpose: Override of ToString() method. Formats the data contained in this object so it
114
                   looks pretty.
          * Input: Nothing.
115
116
          * Output: string, containing serialized object data.
117
                                   -----*/
          public override string ToString()
118
119
             // Returns a the base a string formatted as follows:
120
121
             // Item ID (Item Type): <ItemID> (<ItemType>)
             // Facility Name (Type): <Name> (<Type>)
122
                          Address: <StreetAddress>, <City>, <State> <Zip>
             //
124
             //
                   GPS Coordinates: (<Latitude>, <Longitude>)
                      Phone Number: <Phone>
125
             //
             return string.Format(
126
127
                " Item ID (Item Type): \{0\} (\{1\})\n" +
```

"Facility Name (Type): $\{2\}$ ($\{3\}$)\n" +

Phone Number: {10}",

Address: $\{4\}$, $\{5\}$, $\{6\}$ $\{7\}\n" + GPS Coordinates: <math>(\{8\}, \{9\})\n" +$

128

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131

```
132
                    ItemID, ItemType,
133
                    Name, Type,
                    StreetAddress, City, State, Zip,
134
135
                    Latitude, Longitude,
136
                    Phone);
137
           }
138
139
        }
140 }
141
```