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/*****
 *
 * File:          ClientInformation.java
 *
 * Author:        Dan Gerstl
 *
 * Date:          04/29/2018
 *
 * Purpose:       Project 1
 *
 * Description:   Object to hold client information
 *
 * Comment:       NA
 *
 *****/

public class ClientInformation
{
    /*** Class Constants ***/

    private final String DEFAULT_STRING = "None entered";

    /*** Class Variables ***/

    private String firstName    = null;
    private String lastName    = null;
    private String streetAddress = null;
    private String city        = null;
    private String state       = null;
    private String zipCode     = null;

    /*** Constructor ***/

    public ClientInformation(String firstName, String lastName,
                             String address, String city, String state,
                             String zipCode)
    {
        setFirstName(firstName);
        setLastName(lastName);
        setStreetAddress(address);
        setCity(city);
        setState(state);
        setZipCode(zipCode);
    }

    /*** Class Methods - Transformers/Mutators ***/

    public void setFirstName(String name)
    {
        if (name.length() > 0)
            this.firstName = name;
        else
            this.firstName = DEFAULT_STRING;
    }

    public void setLastName(String name)
    {
        if (name.length() > 0)
            this.lastName = name;
        else
            this.lastName = DEFAULT_STRING;
    }

    public void setStreetAddress(String address)

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{
    if (address.length() > 0)
        this.streetAddress = address;
    else
        this.streetAddress = DEFAULT_STRING;
}

public void setCity(String city)
{
    if (city.length() > 0)
        this.city = city;
    else
        this.city = DEFAULT_STRING;
}

public void setState(String state)
{
    if (state.length() > 0)
        this.state = state;
    else
        this.state = DEFAULT_STRING;
}

public void setZipCode(String zipCode)
{
    /*** Local Constants ***/

    final String DEFAULT_ZIP_CODE = "00000";

    if (verifyZipCode(zipCode))
        this.zipCode = zipCode;
    else
        this.zipCode = DEFAULT_ZIP_CODE;
}

/*** Class Methods - Accessors ***/

public String getFirstName()
{
    return this.firstName;
}

public String getLastName()
{
    return this.lastName;
}

public String getStreetAddress()
{
    return this.streetAddress;
}

public String getCity()
{
    return this.city;
}

public String getState()
{
    return this.state;
}

public String getZipCode()
{
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        return this.zipCode;
    }

    @Override
    public String toString()
    {
        return "First name: "      + this.getFirstName()      + " " +
               "Last name: "       + this.getLastName()       + " " +
               "Street Address: "  + this.getStreetAddress()  + " " +
               "City: "            + this.getCity()            + " " +
               "State: "           + this.getState()           + " " +
               "Zip code: "        + this.getZipCode()          + " " ;
    }

    public static boolean verifyZipCode(String zipCode)
    {
        /*** Local Variables ***/

        boolean isValid = true;

        if (zipCode.length() == 5)
        {
            for (int i = 0; i < zipCode.length(); ++i)
            {
                if (zipCode.charAt(i) >= '0' && zipCode.charAt(i) <= '9')
                {
                    //keep valid
                }
                else
                {
                    isValid = false;
                }
            }
        }
        else
        {
            isValid = false;
        }

        return isValid;
    }

    /*** Application ***/

    public static void main(String[] args)
    {
        ClientInformation tester = new ClientInformation("first", "last",
                                                         "street", "city",
                                                         "state", "zip");
    }
}

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