




# L7a

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**Due** Oct 23, 2018 by 11:59pm      **Points** 10      **Submitting** a file upload      **File Types** zip  
**Available** after Oct 15, 2018 at 8am

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1. Complete Programming Activity 1 - section 7.8. Use the following files: [Airport.java](#)  [AirportClient.java](#)  [Pause.java](#) 
2. After completing the program provide answers to the Discussion Questions 1 and 2 on page 399 (section 7.8 below Programming Activity 1).
3. Class `Auto` that you studied in this chapter is a service class that contains data and methods for use by applications/clients that need functionality for an auto with three fields: `model`, `milesDriven`, and `gallonsOfGas`.

The client class has a `main` method that uses the methods defined in the `Auto` class and it is called `AutoClient`.

Using these classes as an example **create a class** called `TelevisionChannel` that has three fields: *name* (`String`), *number* (`int`), and *cable* (`boolean` that represents whether the channel is a cable channel) and implement the following methods for that class:

- a. a **default constructor** that initializes the fields to an *empty string*, *0*, and *false* respectively
- b. a **secondary constructor** that takes three parameters
- c. **accessor** methods for each field
- d. **mutator** methods for each field
- e. a **"business"** method returning the number of digits in the channel number. For instance, if the channel number is 21, the method should return 2; if the channel number is 412, the method should return 3

To test your methods **create a client** class called `TelevisionChannelClient`. Both classes must be submitted for grading.