

Practical exercise 1

Expand our Employee Expenses Management Application as follows

1. Create the following class:

ExpenseClaim

Field Name	Data Type
id	Integer
employeeId	Integer
dateOfClaim	String*
totalAmount	Double
approved	Boolean
paid	Boolean

* There are data types specifically for dates, but for now we'll store this as a string.

2. Create a constructor for this class that takes all the parameters except for "approved" and "paid". Do not create a default constructor. Within the body of the constructor, set approved and paid to both have the value false.
3. Create setter methods for the approved and paid parameters only. In the setter method for the paid parameter, if the value to be set is true, and the value of the approved parameter is false, print out to the console "This item cannot be paid as it has not yet been approved." and don't change the value.
4. Create getter methods for all the parameters.
5. Create the following class:

ExpenseItem

Field Name	Data Type
id	Integer
claimId	Integer
expenseType	String*
description	String
amount	Double

* this will be to store entries like "hotel", "travel", "meal"

6. All the properties in this class should be read-only. The properties must only be set in the constructor, and the class should not have a default constructor.
7. Create an instance of each class to test your code, using any values you like for the parameters.