

Inheritance

Mick's Wicks makes candles in various sizes. Create a class for the business named `Candle` that contains data fields for `color`, `height`, and `price`. Create get methods for all three fields. Create set methods for `color` and `height`, but not for `price`. Instead, when `height` is set, determine the `price` as \$2 per inch. Create a child class named `ScentedCandle` that contains an additional data field named `scent` and methods to get and set it. In the child class, override the parent's `setHeight()` method to set the `price` of a `ScentedCandle` object at \$3 per inch. Write an application that instantiates an object of each type and displays the details. Save the files as **`Candle.java`**, **`ScentedCandle.java`**, and **`DemoCandles.java`**.