

1 Practice Programming Quiz

1. Create a class called **People** (with a main method).
 2. Declare the following private instance variables:
 - String **firstName**
 - String **lastName**
 - int **age**
 - String **state**
 3. Declare an public static instance variable **People** array called **persons**.
 4. Define a constructor that is passed data used to initialize **firstName**, **lastName**, **age**, **state**.
 5. Create a method called **getName**. This returns the concatenation of the first and last name.
 6. Create a method called **getAge**. This returns the instance variable **age**.
 7. Create a method called **getState**. This returns the instance variable **state**.
 8. Create a **toString** method. The return value should be in the following format:
Name: Bobby Joe, Age: 23, State: Colorado
 9. Create a static method called **readFile** (which returns nothing) that takes a String called **fileName**. Inside this method create a Scanner that reads **fileName**. The file has the following format:
 - number of people in file
 - first name
 - last name
 - age
 - String that represents the state
- Note: the first name, last name, and state can be more than one word.
10. Instantiate **persons** to have the value from the first line in the file (number of people).
 11. Store each person into **persons**.
 12. Create a static method called **writeFile** (which returns nothing), that takes a Person array called **pArray** and a String called **fileName** as parameters. This method writes each element of **pArray** to **fileName**. Do not change the printing format (your **toString** method should overwrite and print in the format desired).
 13. In the main method: call **readFile** with **input.txt**. Should look like: **readFile("input.txt");**
 14. In the main method: call **writeFile** with **output.txt** and **persons**. Should look like: **writeFile("output.txt", persons);**
- NOTE: For questions 13 and 14 you could instead adjust your run configuration settings.

For extra object practice try the following:

1. In the main method, create an object of **People**, called **person0**, who's first name is "Jimmy", last name is "John", age is 26, and he lives in Oregon.
2. In the main method, create an object of **People**, called **person1**, who's first name is "Ronald", last name is "McDonald", age is 76, and he lives in California.
3. In the main method, create an object of **People**, called **person2**, who's first name is "Harry", last name is "Potter", age is 29, and he lives in Washington.
4. Create an array of **People** objects, called **famousPeople** that contains **person0**, **person1**, **person2**.
5. Print **famousPeople**.