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Java I Lab 1-6

**Using Classes**

Download the Car class from my teacher page and then complete the following:

1. What are the fields of the Car class? 6 fields. Make, model, year, mpg, gallons, range

2. How many constructors does the Car class have? 3 constructors

3. How many methods does the Car class have? 10

a. How many methods return a String? 2

1. How many methods return an int? 1
2. How many methods return a double? 2
3. How many methods do not return any data? 5

4. Create a Car object with the following attributes: (call it dingee)

**make:** Nissan

**model**: Altima

**year:** 2010

**mpg:** 34.2

**gallons:** 17.1

5. Create a Car object with the following attributes: (call it herbie)

**make:** Volkswagon

**model**: Beattle

**mpg:** 20.1

**gallons:** 14.3

6. Create a Car object with the following attributes: (call it kitt)

**make:** Pontiac

**model**: Trans Am

7. Use the setGallons method to declare the kitt’s gas tank holds 16.3 gallons.

8. Use the getGallons method within a System.out.println statement make sure it was done correctly.

9. Use the setYear method to declare herbie’s height to be 1963.

10. Use the getYear method within a System.out.println statement make sure it was done correctly.

11. Use the addGas method to add 1 gallon to herbie.

12. Use the getGallons method within a System.out.println statement make sure it was done correctly.

13. Use the addGas method to increase kitt’s gallons by 17.2.

14. Use the getGallons method within a System.out.println statement make sure it was done correctly.

15. What formula would you need to use to calculate the range of any Car Object?

16. Write a getRange method that applies the formula from 15.