

1. Write a Pet class. A Pet object has the following variables: String name, String animalType, and int age. Write a constructor that accepts the parameters in that order. Write a toString which returns a String formatted like this: "Gilly, dog, age: 8".

<p>2. What is output by this code?</p> <pre>String str = "I love the rain"; System.out.println(str.indexOf("e"));</pre>	<p>3. What is output by this code?</p> <pre>String str = "I love the rain"; System.out.println(str.substring(2,5));</pre>
<p>4. Write code to store a random integer between 4 and 13 inclusive in an int variable named num:</p>	<p>5. Write a for loop that prints the numbers 7 through 107 going up by 10s (i.e. 7 17 27...)</p>
<p>6. Write a while loop which prints the numbers 9 down to zero:</p>	<p>7. Assume an int variable temp contains valid data. Write an if / else if / else statement which checks if temp is greater than 90 (print "yes"), between 70 and 90 inclusive (print "OK") and otherwise prints "no".</p>
<p>8. Two String variables answer1 and answer2 contain valid data. Write an if statement that checks if they are equal. Print "yes" if they are, do nothing if they are not.</p>	

9. Tourist class: A tour company keeps track of tourists using Java and a Tourist class. The Tourist class has at least these variables: String firstName, String originCountry, boolean speaksEnglish, and int seatNumber, which contains a seat number (for the bus) for each tourist, starting at 10, going up by 1.

The constructor accepts the parameters in this order: firstName, originCountry, and speaksEnglish and then creates a Tourist with the given information and a unique seat number.

The boolean checkLanguage() method returns the value of speaksEnglish.

The void newSeat() method changes the tourist's seat to the next available bus seat.

The String toString method returns a String representation of a Tourist that looks like this:

```
Seat #10: Frankie, from Bolivia (English OK)
Seat #11: Franny, from Spain (does not speak English)
```

Write the entire Tourist class here.

When done, put a big M on the left next to the mutator method and a big A next to the accessor method. There is just one of each.

Write code here to create a Tourist, then to print the Tourist, and then to change the Tourist's seat.