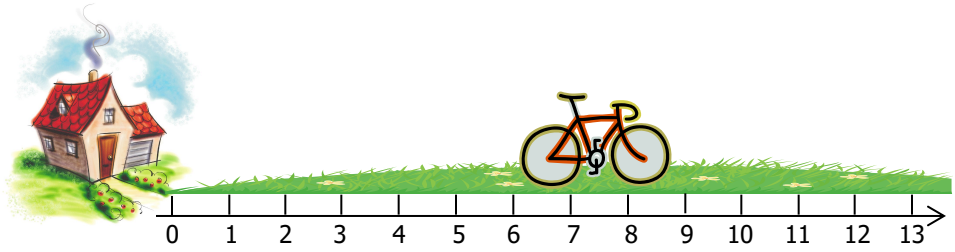
Bicycle



Start off by creating a new package called `bicycle`. Everything for this lab goes inside that package.

Write a class that will model a bicycle. The Bicycle class has the following:

1. Three instance variables (fields):

```
String color        //bicycle object's color
double location    //bicycle's distance from home, in miles
double speed      //speed of bicycle, in miles per hour
```

2. One constructor that takes a single parameter, a String `c`. The constructor should do the following:

   Set the instance variable `color` equal to the value of the `c` parameter.
   Initializes the `location` to 0.
   Initializes the `speed` to 0.

3. The following public methods:

   `public void setSpeed(double newSpeed)`
   - This method takes one parameter, a double `newSpeed`.
   - It sets its instance variable `speed` equal to `newSpeed`.
   - The `speed` can be positive or negative.
   - This method returns nothing (`void`).

   `public void increaseSpeed(double deltaSpeed)`
   - This method takes one parameter, a double `deltaSpeed`.
   - The bicycle's `speed` is increased by `deltaSpeed`, meaning that `deltaSpeed` is added to its `speed`.
   - This method returns nothing (`void`).

   `public double travel(double hours)`
   - This method takes one parameter, a double for `hours`.
   - This method calculates the number of miles traveled at its current `speed` for the specified number of `hours`.
   - This method updates its `location` by adding the number of miles traveled to its `location`.
   - This method **returns** the number of miles traveled (**not** its `location`).

After, you've written your Bicycle class, test it by making the following class called BicycleTester:

```
public class BicycleTester
{
	public static void main(String args[])
	{
		Bicycle bike = new Bicycle("blue"); // make a new Bicycle object

		bike.setSpeed(10);
		System.out.println("Color: " + bike.color);
		System.out.println("Speed: " + bike.speed);
		System.out.println("Miles traveled: " + bike.travel((double)3/60)); // 3 minutes
		System.out.println("Location: " + bike.location);

		bike.increaseSpeed(5);
		System.out.println("Speed: " + bike.speed);
		System.out.println("Miles traveled: " + bike.travel((double)3/60)); // 3 minutes
		System.out.println("Location: " + bike.location);
	}
}
```

When you run the `main()` method of the BicycleTester class, your output should be as follows (if you've done everything correctly):

```
Color: blue
Speed: 10.0
Miles traveled: 0.5
Location: 0.5
Speed: 15.0
Miles traveled: 0.75
Location: 1.25
```