

```
* Dr. Schenk
* CTAERN Class
* 4 Feb 2023
* Pet Class
*/
```

```
package schenk.teach;
```

```
public class Pet {
```

```
    //Fields of the class
    private String species;
    private int numLegs;
    private double weight;
    private boolean isAlive;
```

```
    //Constructor Section
```

```
    //Default Constructor
```

```
    Pet(){
        this.species = "No species assigned yet.";
        this.numLegs = 0;
        this.weight = 0.0;
        this.isAlive = false;
    }
```

```
    //Partial will go here
```

```
    Pet(String species, boolean isAlive){
        this.species = species;
        this.numLegs = 0;
        this.weight = 0.0;
        this.isAlive = isAlive;
```

```
}  
//Full Constructor  
Pet(String species, int numLegs, double weight, boolean isAlive){  
    this.species = species;  
    this.numLegs = numLegs;  
    this.weight = weight;  
    this.isAlive = isAlive;  
}  
  
//Getters and Setters Section  
  
//Species  
public String getSpecies() {  
    //User validation goes here  
    return this.species;  
}  
public void setSpecies(String species) {  
    //User validation goes here  
    this.species = species;  
}  
  
//Number of Legs  
public int getNumLegs() {  
    //User validation goes here  
    return this.numLegs;  
}  
public void setNumLegs(int numLegs) {  
    //User validation goes here  
    this.numLegs = numLegs;  
}
```

```
//Weight
public double getWeight() {
    //User validation goes here
    return this.weight;
}
public void setWeight(double weight) {
    //User validation goes here
    this.weight = weight;
}

//Is Alive?
public boolean isAlive() {
    //User validation goes here
    return this.isAlive;
}
public void setIsAlive(boolean isAlive) {
    //User validation goes here
    this.isAlive = isAlive;
}

//Dumping the state of the class
public void displayPet(){
    System.out.println("Pet report ");
    System.out.println("=====");
    System.out.println("");
    System.out.println("Number of Legs: " + this.numLegs);
    System.out.println("    Weight: " + this.weight);
    if(this.isAlive) {
        System.out.println(" Is it alive?: Yes");
    } else {
        System.out.println(" Is it alive?: RIP");
    }
}
```

```
    }  
    System.out.println();  
    System.out.println();  
    System.out.println();  
}
```

//Another way to dump our state

@Override

```
public String toString() {
```

```
    String s ="Pet report \n"
```

```
        + "=====\n\n"
```

```
        + "Number of Legs: " + this.numLegs + "\n"
```

```
        + "    Weight: " + this.weight + "\n";
```

```
    if(this.isAlive) {
```

```
        s = s + " Is it alive?: Yes\n\n\n";
```

```
    } else {
```

```
        s = s + " Is it alive?: RIP\n\n\n";
```

```
    }
```

```
    return s;
```

```
}
```

```
}
```