10.4 Classwork

```
import java.util.Scanner;
public class PetInformation {
 public static void main(String[] args) {
   Scanner scnr = new Scanner(System.in);
   Pet myPet = new Pet();
   Dog myDog = new Dog();
   String petName, dogName, dogBreed;
   int petAge, dogAge;
   petName = scnr.nextLine();
   petAge = scnr.nextInt();
   scnr.nextLine();
   dogName = scnr.next();
   dogAge = scnr.nextInt();
   scnr.nextLine();
   dogBreed = scnr.nextLine();
   // TODO: Create generic pet (using petName, petAge) and then call printInfo
   myPet.setName(petName);
   myPet.setAge(petAge);
   myPet.printInfo();
   // TODO: Create dog pet (using dogName, dogAge, dogBreed) and then call printInfo
   myDog.setName(dogName);
```

```
myDog.setAge(dogAge);
   myDog.setBreed(dogBreed);
   myDog.printInfo();
   // TODO: Use getBreed(), to output the breed of the dog
   System.out.println("The breed of the dog is " + myDog.getBreed());
 }
10.15
// TODO: Define a class: StringInstrument that is derived from the Instrument class
public class StringInstrument extends Instrument {
 // TODO: Declare private fields: numStrings, numFrets
 private int numStrings;
 private int numFrets;
 // TODO: Define mutator methods -
      setNumOfStrings(), setNumOfFrets()
 public void setNumOfStrings(int userStrings){
 numStrings = userStrings;
  }
 public void setNumOfFrets(int userFrets){
 numFrets = userFrets;
  }
```

```
// TODO: Define accessor methods -
      getNumOfStrings(), getNumOfFrets()
 public int getNumOfStrings (){
   return numStrings;
}
 public int getNumOfFrets(){
   return numFrets;
 }
}
10.17
public class Encyclopedia extends Book {
 // TODO: Declare private fields: edition, numVolumes
 private String edition;
 private int numVolumes;
 // TODO: Define mutator methods -
       setEdition(), setNumVolumes()
 public void setEdition(String userEdition){
 edition = userEdition;
 public void setNumVolumes(int userNumVolumes){
 numVolumes = userNumVolumes;
  }
```

```
// TODO: Define accessor methods -
     getEdition(), getNumVolumes()
public String getEdition(){
 return edition;
}
public int getNumVolumes(){
 return numVolumes;
}
// TODO: Define a printInfo() method that overrides
     the printInfo in Book class
//
@Override
public void printInfo(){
super.printInfo();
System.out.println(" Edition: " + edition);
System.out.println(" Number of Volumes: " + numVolumes);
}
```

}