Sample Solution --- Lecture 2.1 Programming Exercise

```
public abstract class Animal
     public abstract void display();
public abstract class Dog extends Animal
     public abstract void bark();
public class Chihuahua extends Dog
     public void bark()
          System.out.println( "\n Yo quiero Taco Bell" );
     public void display()
          System.out.println( "\n Displaying Chihuahua" );
public class EnglishSpaniel extends Dog
     public void bark()
          System.out.println( "\n I say old chap...I'm
                              rather English" );
     public void display()
          System.out.println( "\n Displaying Spaniel" );
}
```

```
public class FrenchPoodle extends Dog
     public void bark()
          System.out.println( "\n Bonjour mon ami" );
     public void display()
          System.out.println( "\n Displaying Poodle" );
}
public class AbstractClassExercise
    public static void main( String [] args )
          Dog aChihuahua = new Chihuahua();
          Dog aSpaniel = new EnglishSpaniel();
          Dog aPoodle = new FrenchPoodle();
          aChihuahua.bark();
          aChihuahua.display();
          aSpaniel.bark();
          aSpaniel.display();
          aPoodle.bark();
          aPoodle.display();
```