```java
1 package class16;
2
3 import java.util.ArrayList;
4
5 public class Driver {
6
7     public static void main(String[] args) {
8         Professor me = new Professor("Jeff","Hill","B012345ABC");
9         System.out.println(me);
10        System.out.println(me.doQuiz());
11
12        Student you = new Student("Grace","Hopper","B0987654ZYX");
13        System.out.println(you);
14        System.out.println(you.doQuiz());
15
16        Human studentOne = new Student("Steve","Jobs","B123456QWR");
17        System.out.println(studentOne.breathe());
18        System.out.println(me.breathe());
19        System.out.println(you.breathe());
20
21        System.out.println(studentOne);
22        System.out.println(studentOne.doQuiz());
23
24        System.out.println("******************** POLYMORPHIC COLLECTION DEMO
   ******************");
25        ArrayList<Human> roster = new ArrayList();
26        roster.add(me);
27        roster.add(you);
28        roster.add(studentOne);
29
30        for (Human eachOne: roster) {
31            System.out.println(eachOne.toString());
32            System.out.println(eachOne.doQuiz());
33            System.out.println(eachOne.breathe());
34        } // end for
35    } // end main
36 } // end Driver
```

```java
1  package class16;
2
3  public abstract class Human {
4      private final String fName;
5      private final String lName;
6      private final String bearID;
7
8      public Human(String fName, String lName, String bearID) {
9          this.fName = fName;
10         this.lName = lName;
11         this.bearID = bearID;
12     } // end ctor
13
14     @Override
15     public abstract String toString();
16
17     public abstract String doQuiz();
18
19     public String breathe() {
20         return this + " breathes.";
21     } // end breathe
22
23     public String getBearID() {
24         return this.bearID;
25     } // end getBearID
26
27     public String getfName() {
28         return this.fName;
29     } // end getfName
30
31     public String getlName() {
32         return this.lName;
33     } // end getlName
34
35  } // end Human
```

```java
1 package class16;
2
3 public class Student extends Human {
4
5     public Student(String fName, String lName, String bearID) {
6         super(fName, lName, bearID);
7     } // end ctor
8
9     @Override
10    public String doQuiz() {
11        return "My answer is: " + Math.random();
12    } // end takeQuiz
13
14    @Override
15    public String toString() {
16        return "This student named " + this.getfName() + " " + this.getlName() +
17                " Bear ID #: " + this.getBearID();
18    } // end toString
19 } // end Student
```

```java
package class16;

public class Professor extends Human {

    public Professor(String fName, String lName, String bearID) {
        super(fName, lName, bearID);
    } // end ctor

    @Override
    public String doQuiz() {
        return "What is the square root of PI?";
    } // end giveQuiz

    @Override
    public String toString() {
        return "This professor named " + this.getfName() + " " + this.getlName() +
                " Bear ID #: " + this.getBearID();
    } // end toString
} // end Professor
```