TestNotes/pset2/PetTest.java

```java
 1  // PetTest.java
 2
 3  /**
 4   * PSET2 #3
 5   * Test class to demonstrate different types of pets
 6   *
 7   * @author Kuljit Takhar
 8   * @version September 29, 2023
 9   *
10   */
11
12  public class PetTest {
13      public static void main(String[] args) {
14
15          // Create an array of Pet objects
16          Pet[] myPets = new Pet[3];
17
18          // Initialize array with Dog and Cat objects
19          myPets[0] = new Dog("Boo-Boo", 2008);
20          myPets[1] = new Cat("Tigi", 2016);
21          myPets[2] = new Cat("Sheldon", 2011);
22
23          // Iterate through the array and display each pet's name and sound they make
24          for (Pet p : myPets) {
25              System.out.println(p.getName() + " says " + p.speak());
26          }
27      }
28  }
29
30  /**
31   * A subclass of Pet representing a dog
32   */
33
34  class Dog extends Pet {
35
36      // Constructor for creating Dog object with a name and year of birth
37      public Dog(String name, int year) {
38          super(name, year);
39      }
40
41      // Implementation of speak() method for Dog
42      public String speak() {
43          return "Woof!";
44      }
45  }
46
47  /**
48   * A subclass of Pet representing a cat
49   */
50
51  class Cat extends Pet {
52
53      // Constructor for creating Cat object with a name and year of birth
```

```
54      public Cat(String name, int year) {
55          super(name, year);
56      }
57
58      // Implementation of speak() method for Cat
59      public String speak() {
60          return "Meooowww!";
61      }
62  }
63
```