

```

package MyPet;

public class Pet {

    private String name;
    private String owner;
    private int age;

    public Pet(String n, String o, int a) {
        this.name = n;
        this.owner = o;
        this.age = a;
    }

    public Pet(String n, String o){
        this.name=n;
        this.owner=o;
        this.age=0;
    }

    public void showDetails(){
        System.out.println("I am a pet. My name is "
            +this.name+". My owner is "+this.owner);
    }

    public String getName() {
        return name;
    }

    public void setName(String name) {
        this.name = name;
    }

    public String getOwner() {
        return owner;
    }

    public void setOwner(String owner) {
        this.owner = owner;
    }

    public int getAge() {
        return age;
    }

    public void setAge(int age) {
        this.age = age;
    }

}

} //end of the pet class

```

```
package MyPet;

public class Cat extends Pet {

    private int livesLeft;

    public Cat(String n, String o, int a, int l) {
        super(n, o, a);
        this.livesLeft = l;
    }

    public Cat(String n, String o){
        super(n, o);
        this.livesLeft=7;
    }

    public void showDetails(){
        super.showDetails();
        System.out.println("I am a cat. " + this.livesLeft + " lives remain for
me");
    }

}

} //end of the pet class
```

```
package MyPet;

public class Main {

    public static void main(String[] args) {
        //Pet p = new Pet("Lissie","Smith",3);
        //p.showDetails();
        //Cat c = new Cat("Kyan", "Silva", 4, 4);
        //c.showDetails();

        Dog d = new Dog("Syndy", "Nimal", 4, 2);
        d.showDetails();

    }

}

} //end of the demo class
```

```

package MyPet;

public class Dog extends Pet {
    int noOfMasters;

    public Dog(String n, String o, int a, int m) {
        super(n, o, a);
        this.noOfMasters=m;
    }

    public Dog(String n, String o) {
        super(n, o);
        this.setAge(0);
        this.noOfMasters=1;
    }

    public void showDetails(){
        super.showDetails();
        System.out.println("I am a dog. I have "+ this.noOfMasters + " masters
at home");
    }
}

```

```

package MyPet;

public class Demo {

    public static void main(String[] args) {

        Pet p=new Pet("Lissie","Sumith",3);
        Cat c=new Cat("Kyan","Silva",4,4);
        Pet pet=new Pet("Kitty","Sam");
        Cat cat=new Cat("Fluppy","Jane");

        pet.showDetails();
        cat.showDetails();
    }
}

```