**Partner Warm Up**

public class Main {

public static void main(String[] args) {

Cat cat1 = new Cat("Fluffy");

cat1.feed("tuna");

cat1.introduce();

}

}

public class Cat {

private String name;

public Cat(String name) {

this.name = name;

}

public void feed(String food) {

System.out.println("Yum! " + name + " loves " + food + "!");

}

public void introduce() {

System.out.println("Hello, my name is " + name + " and I love " + food);

}

}

**DEMO: tracking number of times fed**

public class Cat {

private String name;

**private int timesFed;**

public Cat(String name) {

this.name = name;

**timesFed = 0; // initial value, "state"**

}

**public int getTimesFed() {**

**return timesFed;**

**}**

public void feed(String food) {

System.out.println("Yum! " + name + " loves " + food + "!");

**timesFed += 1; // updating object's state**

}

public void introduce() {

System.out.println("Hello, my name is " + name);

}

}

public class Main {

public static void main(String[] args) {

Cat cat1 = new Cat("Fluffy");

cat1.feed("tuna");

System.out.println(cat1.getTimesFed());

cat1.feed("mouse");

System.out.println(cat1.getTimesFed());

cat1.feed("treat");

cat1.feed("cat food");

cat1.feed("spinach");

System.out.println(cat1.getTimesFed());

}

}

**THE STATE OF THE OBJECT CHANGES, and the object stores its current state.**

**NOTE! When the program ends, the object leaves memory; so when we start the program again, it starts out again at 0.**

**TRACKING MOST RECENT FOOD**

public class Cat {

private String name;

private int timesFed;

**private String mostRecentFood;**

public Cat(String name) {

this.name = name;

timesFed = 0; // initial value, "state"

**mostRecentFood = ""; // initial value is the empty string**

}

public int getTimesFed() {

return timesFed;

}

public void feed(String food) {

System.out.println("Yum! " + name + " loves " + food + "!");

timesFed += 1; // updating object's state

**mostRecentFood = food; // updating object's state**

}

public void introduce() {

System.out.println("Hello, my name is " + name);

**System.out.println("I most recently ate " + mostRecentFood);**

}

}

public class Main {

public static void main(String[] args) {

Cat cat1 = new Cat("Fluffy");

cat1.introduce();

}

}

public class Main {

public static void main(String[] args) {

Cat cat1 = new Cat("Fluffy");

cat1.feed("tuna");

cat1.introduce();

}

}

public class Main {

public static void main(String[] args) {

Cat cat1 = new Cat("Fluffy");

cat1.feed("tuna");

cat1.feed("mouse");

cat1.feed("treat");

cat1.feed("cat food");

cat1.introduce();

}

}