import java.util.Scanner;

class InvalidInputException extends Exception {

public InvalidInputException(String message) {

super(message);

}

}

class Animal {

protected String name;

// Constructor for the base class Animal

public Animal(String name) throws InvalidInputException {

// Validate if the name is null or empty

if (name == null || name.trim().isEmpty()) {

throw new InvalidInputException("Animal's name cannot be null or empty");

}

this.name = name;

}

public String getName() {

return name;

}

}

class Pet extends Animal {

// Pet class inherits from the Animal class

public Pet(String name, int age) throws InvalidInputException {

// Call the constructor of the base class Animal

super(name);

// Validate if the age is positive

if (age <= 0) {

throw new InvalidInputException("Pet's age must be a positive value");

}

// Age is stored in the derived class

// The name field is inherited from the Animal class

}

public void displayInfo() {

// Display the name (inherited from Animal) and age of the pet

System.out.println("Name: " + name);

}

}

public class Main {

public static void main(String[] args) {

Scanner scanner = new Scanner(System.in);

try {

System.out.print("Enter your pet's name: ");

String petName = scanner.nextLine();

// Validate pet's name

if (petName == null || petName.trim().isEmpty()) {

throw new InvalidInputException("Pet's name cannot be null or empty");

}

System.out.print("Enter your pet's age: ");

int petAge = scanner.nextInt();

// Validate pet's age

if (petAge <= 0) {

throw new InvalidInputException("Pet's age must be a positive value");

}

// Create a Pet object with validated inputs

Pet pet = new Pet(petName, petAge);

System.out.println("\nPet Information:");

// Display the pet's information

pet.displayInfo();

} catch (InvalidInputException e) {

// Handle specific InvalidInputException

System.out.println("Invalid input: " + e.getMessage());

} catch (Exception e) {

// Handle general exceptions

System.out.println("An exception occurred: " + e.getMessage());

} finally {

// Close the Scanner to release resources

scanner.close();

}

}

}