Программа. Создать родительский класс Животное в нем создать подходящие поля и метод. Пронаследовать от него 2 дочерних класса, в них также создать поля класса и метод

Код программы:

class Animal {

private String name;

private int age;

public Animal(String name, int age) {

this.name = name;

this.age = age;

}

public String getName() {

return name;

}

public void setName(String name) {

this.name = name;

}

public int getAge() {

return age;

}

public void setAge(int age) {

this.age = age;

}

public void makeSound() {

System.out.println(name + " is making a sound!");

}

}

class Elephant extends Animal {

private double trunkLength;

public Elephant(String name, int age, double trunkLength) {

super(name, age);

this.trunkLength = trunkLength;

}

public double getTrunkLength() {

return trunkLength;

}

public void setTrunkLength(double trunkLength) {

this.trunkLength = trunkLength;

}

@Override

public void makeSound() {

System.out.println(getName() + " trumpets loudly!");

}

public void sprayWater() {

System.out.println(getName() + " sprays water with its trunk!");

}

}

class Dolphin extends Animal {

private double swimSpeed;

public Dolphin(String name, int age, double swimSpeed) {

super(name, age);

this.swimSpeed = swimSpeed;

}

public double getSwimSpeed() {

return swimSpeed;

}

public void setSwimSpeed(double swimSpeed) {

this.swimSpeed = swimSpeed;

}

@Override

public void makeSound() {

System.out.println(getName() + " clicks and whistles!");

}

public void performJump() {

System.out.println(getName() + " performs a spectacular jump!");

}

}

class Main {

public static void main(String[] args) {

System.out.println("Animal Showcase:");

Elephant elephant = new Elephant("Dumbo", 10, 2.5);

elephant.makeSound();

elephant.sprayWater();

System.out.println("Trunk Length: " + elephant.getTrunkLength() + " meters");

Dolphin dolphin = new Dolphin("Flipper", 5, 25.0);

dolphin.makeSound();

dolphin.performJump();

System.out.println("Swim Speed: " + dolphin.getSwimSpeed() + " km/h");

}

}

Результаты:

