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IT 145

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**Module Two: Write a Class**

*/\*\**

*\*Pet class contains attrributes such ass pet type, pet name, pet age,*

*\*days of stay, space required, and amount due.*

*\*/*

public class Pet {

private String petType;

private String petName;

private int petAge;

private int daysStay;

private int space;

private double amountDue;

*// Constructors*

public Pet(String petType, String petName, int petAge, int daysStay) {

this.petType = petType;

this.petName = petName;

this.petAge = petAge;

this.daysStay = daysStay;

}

*// Getters and setters for Pet attributes*

*//Get type of pet*

public String getPetType() {

*return* petType;

}

*//Set type of pet*

public void setPetType(String petType) {

this.petType = petType;

}

*//Get pet name*

public String getPetName() {

*return* petName;

}

*//Set pet Name*

public void setPetName(String petName) {

this.petName = petName;

}

*//Get pet age*

public int getPetAge() {

*return* petAge;

}

*//Set pet age*

public void setPetAge(int petAge) {

this.petAge = petAge;

}

*//Get days for stays*

public int getDaysStay() {

*return* daysStay;

}

*//Set days for stays*

public void setDaysStay(int daysStay) {

this.daysStay = daysStay;

}

*//Get available space*

public int getSpace() {

*return* space;

}

*//Set available space*

public void setSpace(int space) {

this.space = space;

}

*//Get amount due*

public double getAmountDue() {

*return* amountDue;

}

*//Set amount due*

public void setAmountDue(double amountDue) {

this.amountDue = amountDue;

}

}

*//Dog class extends the Pet class and answers specific questions for Dog.*

class Dog extends Pet {

private int dogSpaceNbr;

private double dogWeight;

private boolean grooming;

public Dog(String petType, String petName, int petAge, int daysStay, int dogSpaceNbr, double dogWeight, boolean grooming) {

super(petType, petName, petAge, daysStay);

this.dogSpaceNbr = dogSpaceNbr;

this.dogWeight = dogWeight;

this.grooming = grooming;

}

*// Getters and setters for Dog-specific attributes*

public int getDogSpaceNbr() {

*return* dogSpaceNbr;

}

public void setDogSpaceNbr(int dogSpaceNbr) {

this.dogSpaceNbr = dogSpaceNbr;

}

*//Get dog weight*

public double getDogWeight() {

*return* dogWeight;

}

*//Set dog weight*

public void setDogWeight(double dogWeight) {

this.dogWeight = dogWeight;

}

*//Grooming or no grooming*

public boolean isGrooming() {

*return* grooming;

}

public void setGrooming(boolean grooming) {

this.grooming = grooming;

}

}

public class Main {

public static void main(String[] args) {

}

}