9.Write a program in Java to resolve the diamond problem using OOPs’ concepts

package Phase\_One;

//Define interface

interface Animal {

void sound();

}

//Create two interfaces that inherit from Animal

interface Dog extends Animal {

void bark();

}

interface Cat extends Animal {

void meow();

}

//Create a class that implements both Dog and Cat

class Pet implements Dog, Cat {

public void sound() {

System.out.println("Pet makes a sound");

}

public void bark() {

System.out.println("Dog barks");

}

public void meow() {

System.out.println("Cat meows");

}

}

public class DiamondOops {

public static void main(String[] args) {

// create an object

Pet pet = new Pet();

// Call methods

pet.sound();

pet.bark();

pet.meow();

}

}

Output

Pet makes a sound

Dog barks

Cat meows