AIM: write a program in java to demonstrate Single Inheritence, Multilevel Inheritence and Hirarchical Inheritance.

Program -1: Single Inheritence

CODE :

// File: SingleInheritance.java

class Animal {

void eat() {

System.out.println("Animal eats food");

}

}

class Dog extends Animal {

void bark() {

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

}

}

public class SingleInheritance {

public static void main(String[] args) {

Dog d = new Dog();

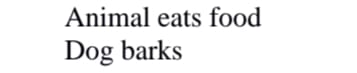
d.eat();

d.bark();

}

}

OUTPUT:



Program-2: Multilevel Inheritence

CODE:

// File: MultilevelInheritance.java

class Grandfather {

void showGrandfather() {

System.out.println("I am Grandfather");

}

}

class Father extends Grandfather {

void showFather() {

System.out.println("I am Father");

}

}

class Son extends Father {

void showSon() {

System.out.println("I am Son");

}

}

public class MultilevelInheritance {

public static void main(String[] args) {

Son s = new Son();

s.showGrandfather();

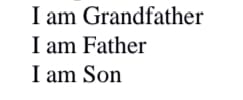
s.showFather();

s.showSon();

}

}

OUTPUT:



Program 3: Hirarchical Inheritance

CODE:

// File: HierarchicalInheritance.java

class Vehicle {

void start() {

System.out.println("Vehicle starts");

}

}

class Car extends Vehicle {

void drive() {

System.out.println("Car drives");

}

}

class Bike extends Vehicle {

void ride() {

System.out.println("Bike rides");

}

}

public class HierarchicalInheritance {

public static void main(String[] args) {

Car c = new Car();

Bike b = new Bike();

c.start();

c.drive();

b.start();

b.ride();

}

}

OUTPUT:

