import java.io.\*;

interface Vehicle

{

void changeGear(int a);

void speedUp(int a);

void applyBrakes(int a);

}

class Bicycle implements Vehicle

{

int speed;

int gear;

public void changeGear(int newGear)

{

gear = newGear;

}

public void speedUp(int increment)

{

speed = speed + increment;

}

public void applyBrakes(int decrement)

{

speed = speed - decrement;

}

public void printStates()

{

System.out.println("speed: " + speed + " gear: " + gear);

}

}

class Bike implements Vehicle

{

int speed;

int gear;

public void changeGear(int newGear)

{

gear = newGear;

}

public void speedUp(int increment)

{

speed = speed + increment;

}

public void applyBrakes(int decrement)

{

speed = speed - decrement;

}

public void printStates()

{

System.out.println("speed: " + speed+ " gear: " + gear);

}

}

class vehicletest

{

public static void main (String[] args)

{

Bicycle bicycle = new Bicycle();

bicycle.changeGear(2);

bicycle.speedUp(3);

bicycle.applyBrakes(1);

System.out.println("Bicycle present state :");

bicycle.printStates();

Bike bike = new Bike();

bike.changeGear(1);

bike.speedUp(4);

bike.applyBrakes(3);

System.out.println("Bike present state :");

bike.printStates();

}

}