Bicycle Class Example

```java
public class BicycleClass

    // private instance vars
    private int cadence
    private int speed;
    private int gear;

    //constructor with no args, default to 0,0,1
    BicycleClass () {
        cadence=0;
        speed=0;
        gear=1;
    }

    //constructor with 3 args passed in
    BicycleClass (int initCadence, int initSpeed, int initGear) {
        cadence=initCadence;
        speed=initSpeed;
        gear=initGear;
    }

    void setCadence(int newValue) {
        cadence = newValue;}

    void setGear(int newValue) {
        gear = newValue;}

    void setSpeed(int increment) {
        speed = speed + increment;}

    void setBrakes(int decrement) {
        speed = speed - decrement;}

    void printStates() {
        System.out.println("cadence: " +
            cadence + " speed: " +
            speed + " gear: " + gear);
    }

    public static void main(String[] args) {

        BicycleClass bike1 = new BicycleClass();
        // BicycleClass bike1 = new BicycleClass(30,10,3);
```

```java
        System.out.print ("Initial states:  ");
        bike1.printStates();
        // Invoke methods on those objects
        bike1.setCadence(50);
        bike1.setSpeed(10);
        bike1.setGear(5);
        bike1.setBrakes(2);

        System.out.print ("Updated states:  ");
        bike1.printStates();
    }

}
```