```
package carproject;
class Car2 {
   private Engine engine;
   private Tire[] tires;
   public Car2() {
       engine = new Engine();
       tires = new Tire[4];
       for (int i = 0; i < 4; i++) {
           tires[i] = new Tire();
   }
   //----start Car-----
   public void startCar() {
       if (areAllTiresInflated()) {
           engine.start();
           System.out.println("Car started.");
       } else {
           System.out.println("Cannot start the car. All tires must have at least 32
psi.");
       }
 //----Stop Car-----
   public void stopCar() {
       engine.stop();
       System.out.println("Car stopped.");
   }
   //----Restart Car-----
   public void restartCar() {
       stopCar();
       startCar();
   }
   private boolean areAllTiresInflated() {
       for (Tire tire : tires) {
           if (tire.getPressure() < 32) {</pre>
               return false;
           }
       }
       return true;
   }
   public Engine getEngine() {
       return engine;
   public Tire[] getTires() {
       return tires;
   }
   public void setTirePressure(int tireIndex, int pressure) {
       tires[tireIndex].setPressure(pressure);
```

```
}
    public static void main(String[] args) {
        Car2 raceCar = new Car2();
        // Inflate all tires to 35 psi
        for (int i = 0; i < 4; i++) {
            raceCar.setTirePressure(i, 35);
        }
        raceCar.startCar();
        raceCar.getEngine().setSpeed(60); // Set the speed to 60 mph
        raceCar.stopCar();
        // Print out car information
        System.out.println("Car Information:");
        System.out.println("Engine Speed: " + raceCar.getEngine().getSpeed() + "
mph");
        for (int i = 0; i < 4; i++) {
            System.out.println("Tire " + (i + 1) + " Pressure: " + raceCar.getTires()
[i].getPressure() + " psi");
        }
    }
}
class Engine {
    private int speed;
    public void start() {
        System.out.println("Engine started.");
    }
    public void stop() {
        System.out.println("Engine stopped.");
    public int getSpeed() {
        return speed;
    public void setSpeed(int speed) {
        this.speed = Math.max(1, Math.min(60, speed)); // Limit the speed between 1
and 60 mph
    }
}
class Tire {
    private int pressure;
    public int getPressure() {
        return pressure;
```

```
public void setPressure(int pressure) {
    this.pressure = pressure;
}
```