- wheelCount
  - o isPrivateBus : flag bus is private or public
- Every class have method identifyMySelf() that **overrides** from Vehicle to print out like demo on the next slide

```
public class MainClass {
   public static void main(String[] args) {
         Vehicle pedalBike = new Bike("Pedal Bike", Boolean.FALSE, 2);
pedalBike.identityMyself();
          System.out.println();
          Vehicle motorBike = new Bike("Motor Bike", Boolean.TRUE, 2);
          motorBike.identitvMvself():
         System.out.println();
          Vehicle cityCar = new Car("City Car", Boolean.TRUE, 4, "4 Cylinder");
         Vehicle sportCar = new Car("Sport Car", Boolean.TRUE, 4, "12-V Cylinder");
          Vehicle transBus = new Bus("Public Bus", Boolean.TRUE, 6, Boolean.FALSE);
         transBus.identityMyself();
         System.out.println():
         Vehicle schoolBus = new Bus("Private Bus", Boolean.TRUE, 6, Boolean.TRUE);
          schoolBus.identityMyself();
     protected String name;
    public Vehicle(String name, boolean isUseEngine) {
         System.out.println("Hil'm Parent of All Vehicles, My name is " + this.name + ", My Engine Status is '" + (this.isUseEngine ? "with engine" : "no engine") + "'");
class Bike extends Vehicle{
    protected Integer wheelCount;
    public Bike(String name, boolean isUseEngine, Integer wheelCount) {
    super(name, isUseEngine);
         this wheelCount = wheelCount:
         class Bus extends Vehicle {
     protected Integer wheelCount;
     public Bus(String name, boolean isUseEngine, Integer wheelCount, boolean isPrivateBus) {
         super(name, isUseEngine);
this.wheelCount = wheelCount;
          this.isPrivateBus = isPrivateBus;
         System.out.println("Mi I'm Bus [" + (this.isPrivateBus ? "Private Bus" : "Public Bus") + "] , My name is " + this.name + ", My Engine Status is " + (this.isUseEngine ? "with engine" : "no engine") + "", I have " + this.wheelCount + " Mheel(s)");
class Car extends Vehicle {
     public Car(String name, boolean isUseEngine, Integer wheelCount, String engineType) {
         super(name, isUseEngine);
this.wheelCount = wheelCount;
         this.engineType = engineType;
     public void identityMyself() {
        System.out.println("Hi I'm Car , My name is " + this.name + ", My Engine Status is '" + (this.isUseEngine ? "with engine" : "no engine") + "', I have " + this.wheelCount
                 + " Whool(s) My Engine Type - " + this whool(count):
```