Unit Tests

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| Class | Method | Set Up (Arrange) | Action (Act) | Expected Result (Assert) |
| Vehicle | Constructor | Create new Vehicle.  Vehicle vTest = new Vehicle(“Ford”, 100); | None | vTest.maxSpeed = 100  vTest.manufacturer = “Ford” |
| Vehicle | GetPercentageOfMaxSpeed | Create new Vehicle.  Vehicle vTest = new Vehicle(“Ford”, 100); | Int vResult = vTest. GetPercentageOfMaxSpeed(70) | vResult = 70; |
| MotorVehicle | Constructor | Create new MotorVehicle  MotorVehicle vtest = new MotorVehicle(“Holden”, 200, 50, 30, 0.5) | None | vTest.maxFuel = 50  vTest.currentFuel = 30;  vTest.literPerKM = 0.5; |
| MotorVechicle | Refuel | Create new MotorVehicle  MotorVehicle vtest = new MotorVehicle(“Holden”, 200, 50, 30, 0.5) | Int vResult = vTest.Refuel() | vResult = 20  vTest.currentFuel = 50 |
| MotorVehicle | Travel | Create new MotorVehicle  MotorVehicle vtest = new MotorVehicle(“Holden”, 200, 50, 30, 0.5) | vTest.Travel(22) | vTest.currentFuel = 19 |
| MotorVehicle | Travel | Create new MotorVehicle  MotorVehicle vtest = new MotorVehicle(“Holden”, 200, 50, 30, 0.5) | vTest.Travel(100) | vTest.currentFuel = 0  Exception Thrown |
| Bus | Constructor | You write this one | You write this one | You write this one |
| Bus | EmbarkPassenger | You write this one | You write this one | You write this one |
| Bus | EmbarkPassenger | You write this one | You write this one | You write this one |
| Bus | DisembarkPassenger | You write this one | You write this one | You write this one |
| Bus | DisembarkPassenger | You write this one | You write this one | You write this one |