

Unit Tests

Class	Method	Scenario	Parameters	test method	Expected result
MotorVehicle	Setup	NA	FakeMotorVehicle(FakeDriver, 100, 50, 2)	NA	NA
MotorVehicle	Constructor	Method is Called	NA	check that the maxfuel, currentfuel and litre/km are correct	max fuel = 100 current fuel = 50 litres/km = 2
MotorVehicle	getFuelRemaining	Method is called	getFuelRemaining()	call getFuelRemainingMethod()	getFuelRemaining() = 50
MotorVehicle	refuel	Vehicle has enough rooms to hold the amount of fuel added	refuel(50)	call the refuel method and check current fuel	currentFuel = 100
MotorVehicle	refuel	Vehicle DOES NOT HAVE enough rooms to hold the amount of fuel added	refuel(51)	call the refuel method	Exception with message containing "cannot hold that much fuel"
MotorVehicle	refuel	Attempt to add -ve amount of fuel	refuel(-1)	call the refuel method	Exception with message containing "stealing fuel"
MotorVehicle	travel	vehicle has enough fuel to travel indicated distance	travel(10)	call travel call getFuelRemainingMethod	30 litres remaining
MotorVehicle	travel	vehicle DOES NOT HAVE enough fuel to travel indicated distance, vehicle runs out of fuel	travel(26)	call travel call getFuelRemainingMethod	Exception with message containing Out of Fuel 0 litres of fuel remianing
Bus	Setup	NA	Bus(FakeDriver, 100, 50, 2, 1) FakePassenger() FakeDriver()	NA	NA
Bus	Constructor	Method is called	NA	check maxPassengers = 1	vBus.maxPassengers = 1
Bus	GetPassengerCount	bus is empty	NA	getThePassengerCount()	getThePassengerCount() should return 0
Bus	GetPassengerCount	buss has passenger	FakePassenger()	bus.passengers.Add(FakePassenger) getThePassengerCount()	getThePassengerCount() should return 1
Bus	embarkPassenger	bus has room for passenger	FakePassenger()	add a passenge	passenger in passengers list should be the fake passenger added
Bus	embarkPassenger	bus is full	FakePassenger()	embark 2 passengers i.e. 2X vBus.embarkPassenger(new FakePassenger)	After second call Exception with foollowing words somewhere in message "Bus" "Full" num passengers embarked is 1;

Person	Setup	NA	FakePerson("Brent", "Beansley", "M")	NA	NA
Person	Constructor	Method is Called	NA	check that the first and last name are correct	first name = "Brent" last name = "Beansley"
Person	getName	Method is called	getName()	check that the name is correct	name = "Brent Beansley"
Person	getGender	Method is called	getGender()	check that the gender is correct	gender = "M"
Driver	Set Up	NA	Driver("Gleant", "Brives", "F", "car")	NA	NA
Driver	Constructor	Method is Called	NA	check that the first and last name are correct	first name = "Gleant" last name = "Brives"
Driver	getLicenceType	Method is called	getLicenceType()	call the getLicenceType method	licence type = "car"
Passenger	Set Up	NA	Passenger("John", "Smith", "M", "daily")	NA	NA
Passenger	Constructor	Method is Called	NA	check that the first and last name are correct	first name = "John" last name = "Smith"
Passenger	getTicketType	Method is called	getTicketType()	call the getTicketType method	ticket type = "daily"

NOTE: Write One Empty Test Called Test_To_Ignore , the test can be empty, but ensure you place an ignore flag before the test