#### Part 1

# StockItem

- StockCode : String

- Quantity: int

- Price : double

+StockItem(Code: String, quantity: Integer, price: Double)

+SetNewPrice(price: Double): void

+getStockName(): String

+getStockDescription(): String

+addStock(StockLevel: Integer) : void

+sellStock(StockLevel: Integer) : Boolean

+getVAT(): Double

+PriceWithVAT(p : Double) : Double

+PriceWithoutVAT(p: Double) : Double

Test for Stock Item Class			
Test Case	Purpose	Expected Result	Actual results
1	Creating a stock with 10 units Unknown item, price 99.99 each, and item code W101	Printing item stock information: Stock Type: Unknown Stock Name Description: Unknown Stock	Test successful Stock Type: Unknown Stock Name Description: Unknown Stock
	and item code W101	Description StockCode: W101 PriceWithoutVAT: 99.99 PriceWithVAT: 117.48825	Description StockCode: W101 PriceWithoutVAT: 99.99 PriceWithVAT: 117.48825
2	Increasing 10 more units in stock	Printing item stock information: Stock Type: Unknown Stock Name	Total unit in stock: 10  Test successful  Stock Type: Unknown Stock Name Description: Unknown Stock
		Description: Unknown Stock Description StockCode: W101 PriceWithoutVAT: 99.99 PriceWithVAT: 117.48825	Description: Officiown Stock  Description StockCode: W101  PriceWithoutVAT: 99.99  PriceWithVAT: 117.48825  Total unit in stock: 20
3	Sold 2 units from stock	Total unit in stock: 20  Printing item stock information: Stock Type: Unknown Stock Name Description: Unknown Stock Description StockCode: W101 PriceWithoutVAT: 99.99	Test successful Stock Type: Unknown Stock Name Description: Unknown Stock Description StockCode: W101 PriceWithoutVAT: 99.99
		PriceWithVAT: 117.48825 Total unit in stock: <b>18</b>	PriceWithVAT: 117.48825 Total unit in stock: <b>18</b>
4	Set new price 100.99 per unit	Printing item stock information: Stock Type: Unknown Stock Name Description: Unknown Stock Description StockCode: W101 PriceWithoutVAT: 100.99 PriceWithVAT: 118.66324999999999 Total unit in stock: 18	Test successful Stock Type: Unknown Stock Name Description: Unknown Stock Description StockCode: W101 PriceWithoutVAT: 100.99 PriceWithVAT: 118.66324999999999

5	Increasing 0 more units	Increasing 0 more units Increased item must be greater than or equal to one	The error was: Increased item must be greater than or equal to one
6	Testing getStockName	Must output: Unknown stock name	Stock Type: Unknown Stock Name
7	Testing getStockDescription	Must output: Unknown stock Description	Description: Unknown Stock Description
8	getVAT	Return VAT value	Vat Value outputted- The VAT value was used in the program as predicted
9	PriceWithVAT	Return new price with added vat Price with VAT: 117.48825	Price with VAT: 117.48825
10	PriceWithoutVAT	Returns Raw Price Price without VAT: 100.99	Price without VAT: 100.99

## StockItem

- StockCode : String

- Quantity: int

+StockItem(Code: String, quantity: Integer, price: Double)

+SetNewPrice(price: Double): void

+getStockName(): String

+getStockDescription(): String

+addStock(StockLevel: Integer) : void

+sellStock(StockLevel: Integer) : Boolean

+getVAT(): Double

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### NavSys

- StockCode : String

- Quantity: int

+StockItem(Code: String, quantity: Integer,

price: Double)

+getStockName(): String

+getStockDescription():String

+TOSTRING(): String

Test Case Purpose Expected Result  1 Creating a stock with 10 units Unknown item, price 99.99 each, and item code W101  Price Without Art: 99.99 each, and item code W101  Price Without Art: 99.99  Price With Wat: 11.7 48825 Total unit in stock: 10  2 Increasing 10 more units in stock Name Description: Unknown Stock Type: Unknown Stock Name Description: Unknown Stock Type: Unknown Stock Name Description: Unknown Stock Description StockCode: W101 Price Without VAT: 99.99 Price With VAT: 117.48825 Total unit in stock: 10  3 Sold 2 units from stock Printing item stock information: Stock Type: Unknown Stock Name Description: StockCode: W101 Price Without VAT: 99.99 Price With VAT: 117.48825 Total unit in stock: 18  4 Set new price 100.99 per unit Printing item stock information: Stock Type: Unknown Stock Name Description: Unknown Stock Name Description: Unknown Stock Name Description: Unknown Stock Name Description StockCode: W101 Price Without VAT: 100.99 Price With VAT: 117.48825 Total unit in stock: 18 Test successful Stock Type: Unknown Stock Name Description StockCode: W101 Price Without VAT: 100.99 Price With VAT: 117.48825 Total unit in stock: 18 Test successful Stock Type: Unknown Stock Name Description StockCode: W101 Price Without VAT: 100.99 Price With VAT: 117.48825 Total unit in stock: 18 Test successful Stock Type: Unknown Stock Name Description StockCode: W101 Price Without VAT: 100.99 Price With VAT: 117		Test for TestNavSys Class and NavSys class			
Unknown item, price 99.99 each, and item code W101  Description: Unknown Stock Description: Unknown Stock Description: Unknown Stock Unkn	Test Case	Purpose	Expected Result	Actual Result	
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5 Increasing 0 more units Required output Actual Output					
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I INCLEASING O MOLE UNITS I INCLEASING O MOLE UNITS			Increasing 0 more units	Increasing 0 more units	

		Increased item must be greater than or equal to one	Increased item must be greater than or equal to one
6	Override GetstockName() method	Method must be overrided to output; "Stock Type: Navigation system"	Correct output; Stock Type: Navigation system
7	Override getStockDescription() method	Method must be overrided to output; "Stock Type: GeoVision Sat Nav"	Correct output Stock Type: GeoVision Sat Nav
8	ToString method	Must print out information; Stock Type: Description: Stock Code Price without VAT: Price with VAT: Total unit in Stock:	Stock Type: Unknown Stock Name Description: Unknown Stock Description Stock Code: W101 Price without VAT: 99.99 Price with VAT: 117.48825 Total unit in Stock: 10

#### StockItem Part 3 -StockCode: String - Quantity: int - Price : double +StockItem(Code: String, quantity: Integer, price: Double) +SetNewPrice(price: Double): void +getStockName(): String +getStockDescription(): String +addStock(StockLevel: Integer): void +sellStock(StockLevel: Integer) : Boolean +getVAT(): Double +PriceWithVAT(p: Double): Double +PriceWithoutVAT(p: Double): Double +TOSTRING(): String m m m 1 m NavSys **Engine** GasTank **TirePart** - StockCode: String - StockCode : String - StockCode: String - StockCode : String - Quantity: int - Quantity: int - Quantity: int - Quantity: int - Price : double - Price : double - Price : double - Price : double +StockItem(Code: String, +StockItem(Code: String, +StockItem(Code: String, quantity: Integer, price: +StockItem(Code: String, quantity: Integer, price: quantity: Integer, price: Double) Double) quantity: Integer, price: Double) Double) +getStockName(): String +getStockName(): String +getStockName(): String +getStockName(): String +getStockDescription(): String +getStockDescription(): String +getStockDescription():String +getStockDescription(): String +TOSTRING(): String +TOSTRING(): String +TOSTRING(): String +TOSTRING(): String

Test for Classes : GasTank, Engine, TirePart and TestPolymorphism			
Test Case	Purpose	Expected result	Actual Result
1	To check if the array holds data correctly	Program outputs 3 sets of data for 3 of the subclasses GasTank, Engine and TirePart	No Errors, all 3 classes utilised, array functions correctly.
2	Test Data input for Engine (Scanner Input)	Data inputs correctly for stock code, stock price, stock amount.	Data is inputted correctly for all required inputs
3	Test Data input for GasTank (Scanner Input)	Data inputs correctly for stock code, stock price, stock amount.	Data is inputted correctly for all required inputs
4	Test Data input for TirePart(Scanner Input)	Data inputs correctly for stock code, stock price, stock amount.	Data is inputted correctly for all required inputs
5	Test variables for storing user inputted data, engineStockCodeInput engineStockAmountInput enginePriceInput	Variables should store data, this will be proven when the data outputs correctly when then program is run.	The data is output correctly when the program is run.
6	Test variables for storing user inputted data, gasTankStockCodeInput gasTankAmountInput gasTankPriceInput	Variables should store data, this will be proven when the data outputs correctly when then program is run.	The data is output correctly when the program is run.
7	Test variables for storing user inputted data, tirePartStockCodeInput tirePartStockAmountInput tirePartPriceInput	Variables should store data, this will be proven when the data outputs correctly when then program is run.	The data is output correctly when the program is run.
8	Scanner input object	Should create an object for the program to use allowing it to take user input from the keyboard	The program takes user input from keyboard
9	Test For loop for outputting data from all 3 classes	For loop should run 3 times allowing all classes to be displayed	Loop runs 3 times

10	Increasing 10 more units in stock	Increasing 10 more units	Test successful
	GasTank class	Stock Type: Gas tank	Increasing 10 more units
		Description: 80 leters	Stock Type: Gas tank
		Stock Code: be11	Description: 80 leters
		Price without VAT: 12.0	Stock Code: be11
		Price with VAT: 14.1	Price without VAT: 12.0
		Total unit in Stock: 23	Price with VAT: 14.1
			Total unit in Stock: 23
11	Increasing 10 more units in stock for	Increasing 10 more units	Test successful
	Engine Class	Stock Type: Engine	Increasing 10 more units
		Description: v8 4 stroke	Stock Type: Engine
		Stock Code: nfrw	Description: v8 4 stroke
		Price without VAT: 1234.0	Stock Code: nfrw
		Price with VAT: 1449.95	Price without VAT: 1234.0
		Total unit in Stock: 22	Price with VAT: 1449.95
			Total unit in Stock: 22
12	Increasing 10 more units in stock for	Increasing 10 more units	Test successful
	TirePart Class	Stock Type: Tire	Increasing 10 more units
		Description: Winter Tires	Stock Type: Tire
		Stock Code: fqw1	Description: Winter Tires
		Price without VAT: 145.0	Stock Code: fqw1
		Price with VAT: 170.375	Price without VAT: 145.0
		Total unit in Stock: 23	Price with VAT: 170.375
			Total unit in Stock: 23
13	Sold 2 units for Engine Class	Sold 2 units	Test successful
		Stock Type: Engine	Sold 2 units
		Description: v8 4 stroke	Stock Type: Engine
		Stock Code: nfrw	Description: v8 4 stroke
		Price without VAT: 1234.0	Stock Code: nfrw
		Price with VAT: 1449.95	Price without VAT: 1234.0
		Total unit in Stock: 20	Price with VAT: 1449.95
			Total unit in Stock: 20

4.4	6.1.12	6.1.12	Today C.I.
14	Sold 2 units for GasTank Class	Sold 2 units	Test successful
		Stock Type: Gas tank	Sold 2 units
		Description: 80 leters	Stock Type: Gas tank
		Stock Code: be11	Description: 80 leters
		Price without VAT: 12.0	Stock Code: be11
		Price with VAT: 14.1	Price without VAT: 12.0
		Total unit in Stock: 21	Price with VAT: 14.1
			Total unit in Stock: 21
15	Sold 2 units for Tire Class	Sold 2 units	Test successful
		Stock Type: Tire	Sold 2 units
		Description: Winter Tires	Stock Type: Tire
		Stock Code: fqw1	Description: Winter Tires
		Price without VAT: 145.0	Stock Code: fqw1
		Price with VAT: 170.375	Price without VAT: 145.0
		Total unit in Stock: 21	Price with VAT: 170.375
			Total unit in Stock: 21
16	Set new price 100 per unit for	Set new price 100 per unit	Test successful
	Engine class.	Stock Type: Engine	Set new price 100 per unit
		Description: v8 4 stroke	Stock Type: Engine
		Stock Code: nfrw	Description: v8 4 stroke
		Price without VAT: 100.0	Stock Code: nfrw
		Price with VAT: 117.5	Price without VAT: 100.0
		Total unit in Stock: 20	Price with VAT: 117.5
			Total unit in Stock: 20
17	Set new price 100 per unit for	Set new price 100 per unit	Test successful
	GasTank class.	Stock Type: Gas tank	Set new price 100 per unit
		Description: 80 leters	Stock Type: Gas tank
		Stock Code: be11	Description: 80 leters
		Price without VAT: 100.0	Stock Code: be11
		Price with VAT: 117.5	Price without VAT: 100.0
		Total unit in Stock: 21	Price with VAT: 117.5
		. 5 (3) (4) (6) (6) (6) (7)	Total unit in Stock: 21
			70tal allie ili Stock. 21

18	Set new price 100 per unit for	Set new price 100 per unit	Test successful
	TirePart class.	Stock Type: Tire	Set new price 100 per unit
		Description: Winter Tires	Stock Type: Tire
		Stock Code: fqw1	Description: Winter Tires
		Price without VAT: 100.0	Stock Code: fqw1
		Price with VAT: 117.5	Price without VAT: 100.0
		Total unit in Stock: 21	Price with VAT: 117.5
			Total unit in Stock: 21
19	Increasing 0 more units for Engine	Increasing 0 more units	Test Successful
	Class	Increased item must be greater than	Increasing 0 more units
			Increased item must be greater
			than or equal to one
20	Increasing 0 more units for GasTank	Increasing 0 more units	Test Successful
	Class	Increased item must be greater than	Increasing 0 more units
			Increased item must be greater
			than or equal to one
21	Increasing 0 more units for	Increasing 0 more units	Test Successful
	TirePart Class	Increased item must be greater than	Increasing 0 more units
			Increased item must be greater
			than or equal to one
22	Override Stock code method Engine	Stock Code method is overridden	Data Outputted correctly
23	Override Stock code method GasTank	Stock Code method is overridden	Data Outputted correctly
24	Override Stock code method TirePart	Stock Code method is overridden	Data Outputted correctly
25	Override Stock Description Engine	Stock Description method is overridden	Data Outputted correctly
26	Override Stock Description GasTank	Stock Description method is overridden	Data Outputted correctly
27	Override Stock Description TirePart	Stock Description method is overridden	Data Outputted correctly
28	Override ToString Engine	ToString method overridden	Data Outputted correctly
29	Override ToString GasTank	ToString method overridden	Data Outputted correctly
30	Override ToString TirePart	ToString method overridden	Data Outputted correctly

31	Test constructor Engine	super(code, quantity, price) Variables must be in given to stock	Data handed over correctly program runs correctly
		item correctly	
32	Test constructor GasTank	super(code, quantity, price); Variables must be in given to stock item correctly	Data Outputted correctly program runs correctly
33	Test constrictor TirePart	super(code, quantity, price); Variables must be in given to stock item correctly	Data handed over correctly program runs correctly