TESTING: TASK 1.2

TEST CASE	PURPOSE	EXPECTED RESULT
Initiation of Stock with	Initiating a new stock:	Printing item stock information:
Parameters:	"StockItem stock = new	Stock Type: Unknown Stock Name
("String stockCode, int	StockItem("W101", 10, 99.99)"	Stock Description: Unknown Stock
quantity, double price")	2.000(11.202) 23, 23.23)	Description
quantity, accuracy price ,	Checks that the parameters given are	Stock Code: W101
	printing correctly.	Price (excl. VAT): £99.99
	p	Price (inc. VAT): £117.48825
		Total Units In Stock: 10
Add > 100 Units of Stock	Checks for valid input of adding stock.	Printing item stock information:
Add > 100 Ollits of Stock	You should not be able to add more	
	than 100 units of stock or an error will	
	be given.	Units of Stock To Add: 101
	be given.	Increasing Stock By 101 Units
	else if (addStock > 100) {	Error: Cannot Add More Than 100
	System.out.println("Error: Cannot Add	Units of Stock
	· · · · · · · · · · · · · · · · · · ·	Offics of Stock
Add < 1 Unit of Stock	Less Than 1 Unit of Stock") Checks for valid input of adding stock.	Printing item stock information:
Add < 1 Unit of Stock		=
	You should not be able to add less than	• • •
	1 unit of stock or an error will be given.	Line that of Charle Tay Addis O
	167 1161 1 1417	Units of Stock To Add: 0
	if (addStock < 1) {	Increasing Stock By 0 Units
	System.out.println("Error: Cannot Add	Error: Cannot Add Less Than 1 Unit
	Less Than 1 Unit of Stock")	of Stock
Add Between 1 and 100	Checks for valid input of adding stock.	Printing item stock information:
Units of Stock	The units added should be between 1	•••
	and 100 inclusive therefore the lower	Total Units In Stock: 10
	bounds of 1 and the upper bounds of	-
	100 should be tested as well as	Units of Stock To Add: 1
	numbers in-between.	Increasing Stock By 1 Units
	There should not be any errors returned	Printing item stock information:
	and the new stock information should	
	add the input to the "Total Units In	Total Units In Stock: 11
	Stock"	
		Printing item stock information:
		Total Units In Stock: 10
		Units of Stock To Add: 100
		Increasing Stock By 100 Units
		mereasing stock by 100 orms
		Printing item stock information:
		Total Units In Stock: 110
		Printing item stock information:
		Total Units In Stock: 10
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		Units of Stock To Add: 50
		Units of Stock To Add: 50 Increasing Stock By 50 Units

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e, 10 (200 .020 .)		Printing item stock information:
		Total Units In Stock: 60
Sell Stock < 1 Units	Checks for valid input of selling stock.	Printing item stock information:
	The units sold cannot be less than 1 unit	• • •
	of stock.	
		Units of Stock Sold: 0
	if (sellStock < 1) {	Sold 0 Units of Stock
	System.out.println("Error: Cannot Sell	Error: Cannot Sell Less Than 1 Unit
	Less Than 1 Unit of Stock")	of Stock
Sell Stock Should Not	Checks for valid input of selling stock.	Printing item stock information:
Exceed Available Units	The units sold cannot exceed the	
of Stock	available units of stock available.	Total Units In Stock: 10
		Units of Stock Sold: 11
		Sold 11 Units of Stock
		Error: Cannot Sell More Than
		Available Units of Stock
VAT is 17.5% (double vat	Calculates the price of the price	Price (excl. VAT): £99.99
= 17.5)	inclusive of the VAT at the set	Price (inc. VAT): £117.48825
	percentage of 17.5 which is 1.175x price	
	excluding VAT shown in the code below.	
	getPrice() * (1 + (getVAT() / 100)	
toString() method	Returns string giving stock code, stock	Printing item stock information:
	name, description, quantity, price	Stock Type: Unknown Stock Name
	before VAT, price after VAT.	Stock Description: Unknown Stock
		Description
		Stock Code: W101
		Price (excl. VAT): £99.99
		Price (inc. VAT): £117.48825
		Total Units In Stock: 10

TASK 2.2

TEST CASE	PURPOSE	EXPECTED RESULTS
Initiation of Stock	Initiating a new stock:	Printing item stock information:
with Parameters:	StockItem stock = new NavSys("NS102",	Stock Type: Navigation System
("String stockCode,	10, 124.99);	Stock Description: GeoVision Sat Nav
int quantity, double		Stock Code: NS102
price")	The instance methods in StockItem will	Price (excl. VAT): £124.99
	be overridden with the NavSys classes	Price (inc. VAT): £146.86325
Override the	getStockName() and	Total Units In Stock: 10
instance methods	getStockDescription()	

TASK 3.2

TEST CASE	PURPOSE	EXPECTED RESULT
Test Polymorphism	Build an array containing one	Printing item stock information:
	instance of each of the subclasses of	Stock Type: Navigation System
	StockItem given the parameter.	Stock Description: GeoVision Sat Nav
	green and parameters	Stock Code: NS102
	The program should run through the array and call the class methods to test	Price (excl. VAT): £99.99
		Price (inc. VAT): £117.48825
	each instance.	Total Units In Stock: 10
	c[0] = now NewCyc/"NC102" 10 00 00).	• • •
	s[0] = new NavSys("NS102", 10, 99.99); s[1] = new DashCam("DC302", 15, 150);	Printing item stock information:
	s[2] = new CarStereo("CS105", 5, 50);	Stock Type: Dash Cam
	s[3] = new WiperBlades("WB203", 20,	Stock Description: Nextbase Dash Cam
	30);	Stock Code: DC302
	30,,	Price (excl. VAT): £150.0
		Price (inc. VAT): £176.25
		Total Units In Stock: 15
		•••
		Printing item stock information:
		Stock Type: Car Stereo
		Stock Description: JVC Car Stereo
		Stock Code: CS105
		Price (excl. VAT): £50.0
		Price (inc. VAT): £58.75
		Total Units In Stock: 5
		Printing item stock information:
		Stock Type: Wiper Blades
		Stock Description: Bosch Wiper Blades
		Stock Code: WB203
		Price (excl. VAT): £30.0
		Price (inc. VAT): £35.25
		Total Units In Stock: 20