| Test case | Purpose | Expected output |
| --- | --- | --- |
| Creating an instance of a navigation system with a stock code of A#134, a price of 50 and a stock of 15 | This is to see if our program can successfully create an instance of a specific item and output the correct details. | Getting stock info...  Stock code: A#134  Stock name: Navigation System  Stock desc: Geovision SatNav  Units in stock: 15  Price: 50.0  Price with VAT: 58.75 |
| Adding 10 stock to navigation system | This is to see how our program runs when we add more stock to it and to see if the values are updated upon output. | Adding 10 units of stock...  Updating quantity to new quantity of 25...  Getting stock info...  Stock code: A#134  Stock name: Navigation System  Stock desc: Geovision SatNav  Units in stock: 25  Price: 50.0  Price with VAT: 58.75 |
| Adding 200 stock to navigation system | This is to see if our program displays a suitable error message, as stock would be above maximum capacity. | Cannot add stock, stock level is at max capacity. |
| Selling 5 navigation systems | This is to see if the program can successfully function when we sell fewer navigation systems than we have in stock, and if the values are updated upon output. | Sold 5 units of stock...  Updating quantity to new quantity of 20...  Getting stock info...  Stock code: A#134  Stock name: Navigation System  Stock desc: Geovision SatNav  Units in stock: 20  Price: 50.0  Price with VAT: 58.75 |
| Selling 0 navigation systems | This is to see if our program displays a suitable error message, as selling this amount would have no effect. | Cannot sell stock, decrement amount is less than one. |
| Changing price of navigation systems to 60 | This is to see if the program correctly updates the output to the stock’s new price, as well as updating its price with VAT | Updating price to new price of 60.0...  Getting stock info...  Stock code: A#134  Stock name: Navigation System  Stock desc: Geovision SatNav  Units in stock: 20  Price: 60.0  Price with VAT: 70.5 |
| Changing price of navigation systems to 0.00 | This is to see if the program provides the right output message, as navigation system cannot be sold for free. | Cannot set price less than 0.01 |
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