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| Test Case | Purpose | Expected result |
| Create an instance of Stock item with the item code W101, stock of 90 and a cost of 20 | This is to see if we could create an instance of a generic stock and to output the information about the stock | Creating a stock with 90 units of unknown item, price of 20.0 each, and stock code W101...  Getting stock info...  Stock code: W101  Stock name: Unknown Stock Name  Stock desc: Unknown Stock Description  Units in stock: 90  Price: 20.0  Price with VAT: 23.5 |
| Adding 10 units of stock | 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 100...  Getting stock info...  Stock code: W101  Stock name: Unknown Stock Name  Stock desc: Unknown Stock Description  Units in stock: 100  Price: 20.0  Price with VAT: 23.5 |
| Selling 2 units of stock | This is to see how our program functions when we sell 2 units of generic stock as well as if it’s updated upon output | Sold 2 units of stock...  Updating quantity to new quantity of 98...  Getting stock info...  Stock code: W101  Stock name: Unknown Stock Name  Stock desc: Unknown Stock Description  Units in stock: 98  Price: 20.0  Price with VAT: 23.5 |
| Changing the price to 3 | This is to see how our program functions when we change the price of the stock. When we update this we should expect to see the price and price with VAT changes upon output | Sold 2 units of stock...  Updating quantity to new quantity of 98...  Getting stock info...  Stock code: W101  Stock name: Unknown Stock Name  Stock desc: Unknown Stock Description  Units in stock: 98  Price: 20.0  Price with VAT: 23.5 |
| Create an instance of Stock item with the item code E#404, stock of 45 and a cost of 15.50 | This is to see if the program can handle variations of the stockItem class such as different values and data types for the price. | Creating a stock with 45 units of unknown item, price of 15.5 each, and stock code E#404...  Getting stock info...  Stock code: E#404  Stock name: Unknown Stock Name  Stock desc: Unknown Stock Description  Units in stock: 45  Price: 15.5  Price with VAT: 18.2125 |
| Adding 5 units of Stock | This is to see if our program output still works with different item codes and values | Adding 5 units of stock...  Updating quantity to new quantity of 50...  Getting stock info...  Stock code: E#404  Stock name: Unknown Stock Name  Stock desc: Unknown Stock Description  Units in stock: 50  Price: 15.5  Price with VAT: 18.2125 |
| Selling 6 units of Stock | This is to see if our output still functions with removing more than the stock we just added | Sold 6 units of stock...  Updating quantity to new quantity of 44...  Getting stock info...  Stock code: E#404  Stock name: Unknown Stock Name  Stock desc: Unknown Stock Description  Units in stock: 44  Price: 15.5  Price with VAT: 18.2125 |
| Changing price to 20 | This is to see if our program can handle changing from one data type to another (from double to int) | Updating price to new price of 20.0...  Getting stock info...  Stock code: E#404  Stock name: Unknown Stock Name  Stock desc: Unknown Stock Description  Units in stock: 44  Price: 20.0  Price with VAT: 23.5 |
| Attempting to sell more stock than we actually have | This is to see how our program functions when we try to sell something we currently don’t have enough of. | Cannot sell stock, decrement amount is greater than quantity in stock. |
| Attempting to set the stock to a number less than 1. | This is to validate if the data input is greater than 1 as you can’t have less than 1 stock. | Cannot create stock with quantity less than 1. |
| Attempting to set the cost to something less than 1. | This is to validate if the data input is greater than 0 as you can’t have stock price being 0. | Cannot create stock with a set price of less than 0 |