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| StockItem |
| $ stock\_category: string - code: string - quantity: int - price: double |
| + \_\_init\_\_(code: string, quantity: int, price: double): void + set\_stock\_code(code: string): void + set\_quantity(quantity: int): void + set\_price(price: int): void + get\_stock\_code(): string + get\_quantity(): int + get\_price\_with\_vat(): double + get\_price\_without\_vat(): double + get\_stock\_name(): string + get\_stock\_description(): string + increase\_stock(amount: int): void + sell\_stock(amount: int): bool + get\_vat(): float + \_\_str\_\_(): string |

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| SoundSys |
| - brand: string - voltage: int |
| + \_\_init\_\_(code: string, quantity: int, price: double, brand: string): void + set\_brand(brand: string): void + set\_voltage(voltage: int): void + get\_brand(): string + get\_voltage(): int + get\_stock\_name(): string + get\_stock\_description(): string + \_\_str\_\_(): string |

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| NavSys |
| - brand: string |
| + \_\_init\_\_(code: string, quantity: int, price: double, brand: string): void + set\_brand(brand: string): void + get\_brand(): string + get\_stock\_name(): string + get\_stock\_description(): string + \_\_str\_\_(): string |

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| DashCam |
| - brand: string - pixels: int |
| + \_\_init\_\_(code: string, quantity: int, price: double, brand: string): void + set\_brand(brand: string): void + set\_pixels(pixels: int): void + get\_brand(): string + get\_pixels(): int + get\_stock\_name(): string + get\_stock\_description(): string + \_\_str\_\_(): string |

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| BeltPad |
| - brand: string - colour: string |
| + \_\_init\_\_(code: string, quantity: int, price: double, brand: string): void + set\_brand(brand: string): void + set\_colour(colour: string): void + get\_brand(): string + get\_colour(): string + get\_stock\_name(): string + get\_stock\_description(): string + \_\_str\_\_(): string |

Created NavSys instance with:  
Stock code: Nav3264  
Quantity: 19  
Price: 50.95  
Brand: TomTom

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| Test | Expected result/output | Actual result/output | Comments |
| Print NavSys information | Stock code: Nav3264 Stock name: Navigation system Stock description: GeoVision Sat Nav Quantity: 19 Price without VAT: £50.95 Price with VAT: £59.87 Brand: TomTom | Stock code: Nav3264,  Stock name: Navigation system,  Stock description: GeoVision Sat Nav,  Quantity: 19, Price without VAT: £50.95,  Price with VAT: £59.87,  Brand: TomTom | Output as expected |
| Increase quantity by 20 | Quantity should be 39 | Quantity is 39 | Result as expected |
| Sell 30 units | Quantity should be 9 | Quantity is 9 | Result as expected |
| Set price to 90.50 | Price without VAT: £90.50 Price with VAT: £106.34 | Price without VAT: £90.50,  Price with VAT: £106.34 | Output as expected |
| Sell 0 stock | Error: Cannot sell less than 1 stock. | Error: Cannot sell less than 1 stock. | Output as expected |
| Increase stock by 200 | Error: Stock amount cannot exceed 100. | Error: Stock amount cannot exceed 100. | Output as expected |
| Print quantity | Quantity should still be 9 | Quantity: 9 | Result as expected |
| Sell 10 stock | No error message should be displayed, the function should return false | No error message | Output as expected |
| Print quantity | Quantity should still be 9 | Quantity: 9 | Output as expected |