



The screenshot shows a macOS desktop with an IDE window open. The IDE has a menu bar with 'IDLE', 'File', 'Edit', 'Shell', 'Debug', 'Options', 'Window', and 'Help'. The main window is titled 'Python Assignment 9.py - /Users/Aman/Documents/Python Assignment 9.py (3.11.3)'. It contains the following Python code:

```
#Python Assignment #9:

import unittest

from Storage.StockItem import StockItem

class TestShop(unittest.TestCase):

    def test_StockItem_price(self):
        item = StockItem(stock_ref='Test', price=28, tags='test:tag')
        self.assertNotEqual(item.price, 33)

    def test_StockItem_tag(self):
        item = StockItem(stock_ref='Test', price=28, tags='test:tag')
        self.assertEqual(item.tags, 'test:tag')

    def test_StockItem_add_stock(self):
        item = StockItem(stock_ref='Test', price=28, tags='test:tag')
        self.assertEqual(item.stock_level, 0)
        item.add_stock(14)
        self.assertTrue(item.stock_level, 14)

    def test_StockItem_sell_stock(self):
        item = StockItem(stock_ref='Test', price=28, tags='test:tag')
        self.assertEqual(item.stock_level, 0)
        item.add_stock(5)
        self.assertEqual(item.stock_level, 5)
        item.sell_stock(2)
        self.assertEqual(item.stock_level, 3)

if __name__ == '__main__':
    unittest.main()
```

To the right of the code editor is a terminal window titled 'IDLE Shell 3.11.3'. It shows the output of running the script:

```
Python 3.11.3 (v3.11.3:f3909b8bc8, Apr 4 2023, 20:12:10) [Clang 13.0.0 (clang-1300.0.29
.30)] on darwin
Type "help", "copyright", "credits" or "license()" for more information.
>>>
===== RESTART: /Users/Aman/Documents/Python Assignment 9.py =====
....
Ran 4 tests in 0.062s

OK
>>>
```

The status bar at the bottom of the IDE shows 'Ln: 36' and 'Ln: 10 Col: 0'. The macOS dock is visible at the bottom with various application icons.

Report:

In this assignment, I am using the Fashion model project from week 6 to test aspects of the application. In the first test, I am checking to see if the price is set correctly. I used the NotEqual function to prove that the price 33 is not equal to 28 and this was

true. In the second test, I am checking to see if the tag is set correctly. I used assertEquals to check if the tag is equal to the one that is set. In the third test, I set the initial stock level to zero, then I added 14 items to the stock. I use the assertTrue function to check if the added stock items are true. In the last test, I set the initial stock to zero then I add 5 items and sold 2 items. Here, I am checking to see if the stock is equal to 3. All tests passed.