

Screenshots

TC1

The screenshot shows a code editor interface with a dark theme. On the left is the Explorer sidebar, which lists a project folder 'A01350993_A5.2' containing subfolders TC1, TC2, and TC3, and several files including 'computeSales.py', 'ProductList.csv', 'ProductList.xlsx', 'Results.txt', and 'SalesResults.txt'. The main area displays the content of 'computeSales.py'. The code defines a 'main' function that checks the number of command-line arguments, prints usage information if there are fewer than three, and then reads 'catalogue_file' and 'sales_file' from the command line. It uses 'load_product_catalogue' and 'load_sales' functions to load data from the respective files, calculates the total sales amount, and prints the results along with execution time. The terminal at the bottom shows the command 'python3 computeSales.py TC1/TC1.ProductList.json TC1/TC1.Sales.json' being run, followed by the output: 'Sales Results' and 'Total sales amount: \$2481.86 Execution time: 0.000483 seconds'.

```
def main() -> None:
    """
    if len(sys.argv) != 3:
        print(
            "Usage: python computeSales.py "
            "priceCatalogue.json salesRecord.json"
        )
        sys.exit(1)

    start_time = time.time()

    catalogue_file = sys.argv[1]
    sales_file = sys.argv[2]

    catalogue = load_product_catalogue(catalogue_file)
    sales = load_sales(sales_file)

    total = compute_total_sales(catalogue, sales)

    elapsed_time = time.time() - start_time

    print("\nSales Results")
    print("-----")
    print(f"Total sales amount: ${total:.2f}")
    print(f"Execution time: {elapsed_time:.6f} seconds")

    save_results(total, elapsed_time)

if __name__ == "__main__":
    main()
```

caroflores@Mac A01350993_A5.2 % python3 computeSales.py TC1/TC1.ProductList.json TC1/TC1.Sales.json

Sales Results

Total sales amount: \$2481.86

Execution time: 0.000483 seconds

caroflores@Mac A01350993_A5.2 %

TC2

```
caroflores@Mac A01350993_A5.2 % python3 computeSales.py TC1/TC1.ProductList.json TC2/TC2.Sales.json
Invalid sale record skipped: Quantity must be greater than zero.
Invalid sale record skipped: Quantity must be greater than zero.

Sales Results
Total sales amount: $169478.22
Execution time: 0.000355 seconds
```

TC3

```
caroflores@Mac A01350993_A5.2 % python3 computeSales.py TC1/TC1.ProductList.json TC3/TC3.Sales.json
Product not found in catalogue: Etoles
Invalid sale record skipped: Quantity must be greater than zero.
Product not found in catalogue: Frijoles
Invalid sale record skipped: Quantity must be greater than zero.

Sales Results
Total sales amount: $168145.36
Execution time: 0.000468 seconds
```