Project 1 - Part 2

PART 2 – LISTS, DICTIONARIES AND LOOPING

1. Write one page of essay (font 12 and spacing 1.5) explaining your inventory management system.

The inventory management system takes user input and allocates inventory based on "Name", "Price", and "Quantity." The first portion of the code is the `main()` function. This is the backbone of the system. It initializes the `products` dictionary, initializes the while loop, and calls the menu interface (`display_menu()`). It consists of 4 choices of location (add new product, update product, view products, stop) that will redirect the user to 4 other functions based on user input between 1-4. The `display_menu()` is a code for the landing page interface when the user interacts with the `main` function and provides context to the system. The next function `add_product()` is a function that adds a new product into the `products` dictionary. If a product is already in the `products` dictionary, it will reject the input and ask for a new product. If not, it will prompt the user to enter the subsequent product details; price and quantity. Then it will inform the user if the entry is successful or not. The next function `update_product()` is to update existing products in the `products` dictionary. If a product is not present in the dictionary, then it will reject the input and ask for a new input. If the product is in the dictionary, then it will prompt the user to choose either to update the price or quantity. It will inform the user if the update is successful. The last function is `view_products()`, this code is for the user to view the available products in the dictionary.