**Project : Shopping Cash Register**

**Summary**

This project presents a **Shopping Cash Register**, developed using Python for use in small retail businesses or educational purposes. The system facilitates key retail operations including item addition, real-time cart viewing, bill updates, invoice generation, GST and discount calculations, and daily invoice tracking. It is interactive, simple to use.

**Objectives**

* Build a user-friendly system for managing customer purchases
* Calculate billing in real-time with discounts and tax (GST)
* Track invoices and allow clearing of daily records

**Functional Modules**

**1. Main Program – cash\_register()**

Acts as the control loop where the user enters commands, invokes respective functions, and controls flow.

**2. Display Menu – display\_menu()**

Shows command list options like add, view cart, checkout, etc., using color formatting for better UX in notebooks or Jupyter.

**3. Add Item – add\_item(items)**

* Takes input for item name, price, quantity, and discount.
* Validates inputs and avoids command misuse during entry.
* Stores all item data in a list of dictionaries.

**4. Update Item – update\_item(items, item\_name)**

* Finds an item by name.
* Allows editing of one of four fields: name, price, quantity, or discount.

**5. Remove Item – remove\_item(items, item\_name)**

* Deletes item from cart by name.
* Displays confirmation or not-found message.

**6. View Bill – view\_bill(items)**

* Displays each item with quantity, price, and calculated item-total (with discount).
* Shows subtotal for current cart.

**7. Checkout – checkout(items)**

* Calculates subtotal, total discount, GST based on user input.
* Displays final bill summary.
* Stores bill in daily\_invoices for recordkeeping.
* Clears current cart after checkout.

**8. Invoice Tracker – view\_invoices()**

* Displays all previous invoices generated during the session.
* Includes all items and billing breakdowns.

**9. Clear Invoice Records – clear\_invoices()**

* Clears daily\_invoices after user confirmation.
* Useful for end-of-day clearing.

----------- Thank You -----------