

A background photograph showing a person's hands interacting with a smartphone and a laptop. In the foreground, there is a calculator and a spiral-bound notebook. The overall color palette is blue and green.

Shop Billing System

(Computer Hardware Shop billing system)

INTRODUCTION



I chose a computer Hardware shop. This program will first display the available computer hardwares in the shop (User will be able to customize their PC according to their need) and later on will generate the bill with accurate efficiency which could be altered when done manually by human.

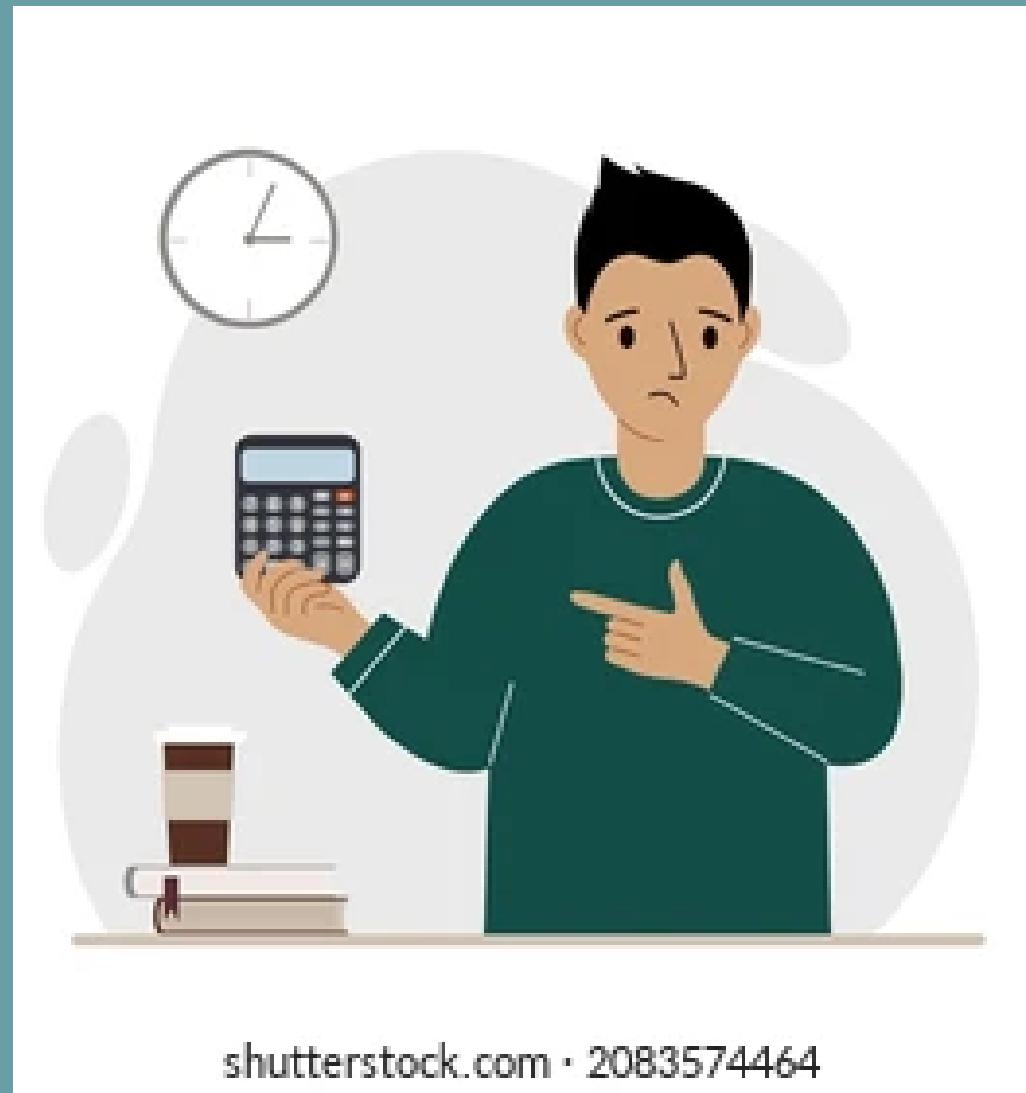


Why Billing is important ??

Billing is crucial for businesses because it directly impacts cash flow by ensuring timely payment from customers, which supports daily operations, growth, and financial stability. It also provides a legal and accurate record of transactions for accounting and tax purposes, builds customer trust through clear financial communication, and helps track business performance and inventory.

Problem Definition

- **Manual billing leads to calculation mistakes**
- **Takes more time during rush hours**
- **Hard to store or retrieve previous bills**
- **No proper inventory tracking**
- **Limited customization for computer component**



shutterstock.com • 2083574464



Objectives Of the project

- **Develop an automated billing system**
- **Reduce calculation errors**
- **Improve speed and efficiency**
- **Store billing records safely**
- **Allow customizable PC component selection**



Features of this shop billing system

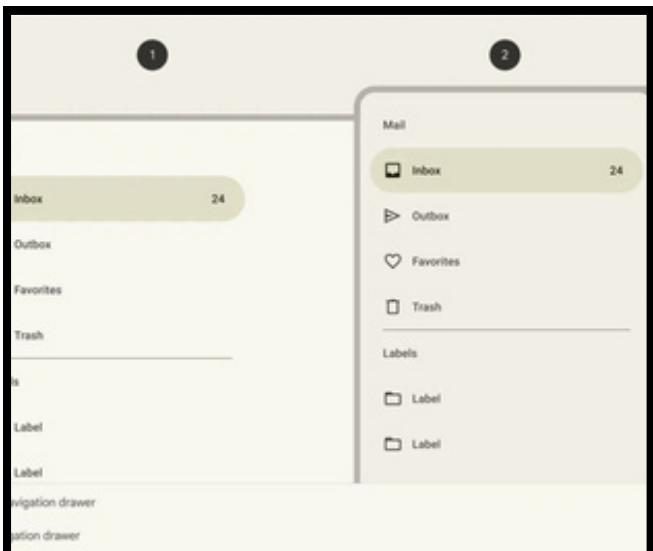
- User-friendly and easy to operate
- Automatic calculation of totals
- Quick billing during rush hours
- Error-free bill generation
- Menu-based navigation
- Saves time and reduces workload
- C-programming language is used for developing this system (Various elements like functions, switch case, loops and conditions have been used.)



Quick billing System



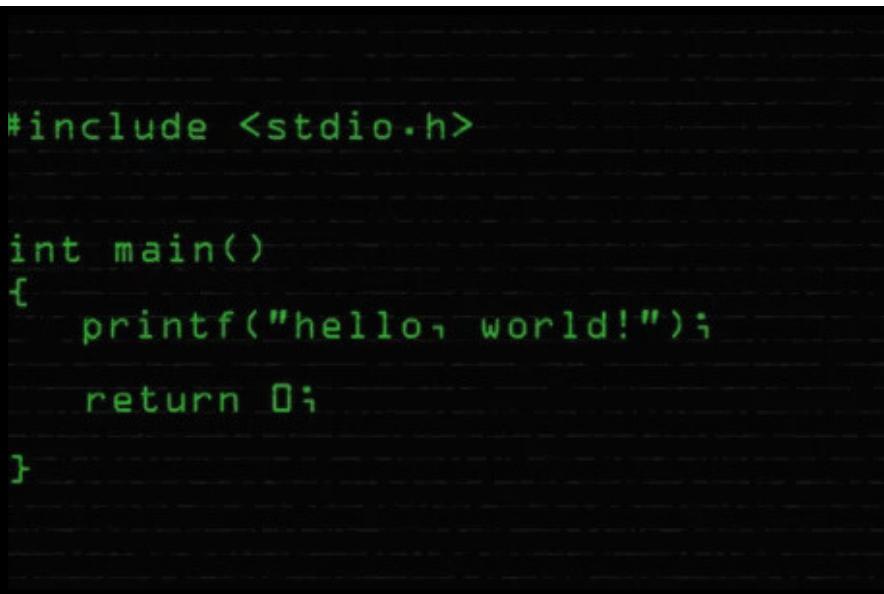
Easy to operate



Menu-Based System



Error-Free



C-Programming



Saves time

Technology used

(Elements of C-programming used)

- Functions : To make the code readable and design modularity
 - Loops and conditions**
 - Switch-case for menu design**
 - . Small mathematical calculations**
 - . Comments for readability****

Future Enhancements

- ADD GST AND DISCOUNT CALCULATIONS
- GENERATE PDF BILLS
- GUI INTERFACE IN THE FUTURE
- DATABASE SUPPORT
- MONTHLY AND WEEKLY SALES REPORTS

CONCLUSION

In conclusion, a shop billing system plays a vital role in any business because it ensures accurate billing, timely payments, and smooth financial management. In my project, the Computer Hardware Shop Billing System, I demonstrated how efficient billing improves customer trust and helps track sales, inventory, and daily transactions with ease.

To build this system, I applied key elements of C programming, including file handling for storing and retrieving bills, structures for organizing product and customer data, pointers for efficient data manipulation, loops and conditions for menu-driven operations, and functions to make the code modular and easy to maintain. Overall, this project highlights how C programming can be used to automate real-world business processes and create a reliable, user-friendly billing solution.





Thank You

NAME:ISHA VIJAY
SAP ID: 590027876
BATCH NO. :60