



K. J. Somaiya Polytechnic, Mumbai-77

Batch No: C2

Enrollment No.: FCOG21723 & FCOG21744

Micro Project Name: Billing Software



K. J. Somaiya Polytechnic, Mumbai-77

Experiment No.19

Experiment Name: Implementation of Micro Project

Micro Project Title: Billing Software

Problem Definition:

Create a billing software application using Python and Tkinter. The application should allow users to enter customer details, select products (sanitizer, mask, gloves, etc.) and their quantities, calculate total prices, apply taxes, and generate a bill. The program should also provide functionality to search for bills, clear data, and save bills to files.

Concept of Python used in microproject

- Tkinter: GUI library for creating the user interface.
 - Object-Oriented Programming (OOP): Classes and objects are used to organize the code into a structured format.
 - File Handling: Reading from and writing to files for saving bill information.
 - Random Module: Generating random bill numbers.
 - Conditional Statements: Used for validation and decision-making processes.
 - Looping Constructs: For iterating through products and calculating total prices.
 - Functions: Modularizing code into functions for better readability and reusability.
 - String Formatting: Formatting strings for displaying bill information.
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ScreenShots of Micro Project:

[illegible]


Billing Software

Billing Software

Customer Details

Customer Name:
Customer Phone:
Bill Number:

Medical Purpose

Sanitizer
Mask
Hand Gloves
Dettol
Newsprin
Thermal Gun

Grocery Items

Rice
Food Oil
Wheat
Daal
Flour
Maggi

Cold Drinks

Sprite
Lanka
Mazza
Coke
Fanta
Mountain Duo

Bill Area

Welcome Webcode Retail

Bill Number:9016

Customer Name:Alice

Phone Number:8433599878

Products	QTY	Price
Sanitizer	5	10
Maggi	3	15
Sprite	2	20
Medical Tax		Rs. 0.5
Grocery Tax		Rs. 75.0
Cold Drinks Tax		Rs. 2.0
Total Bill:		Rs.122.5

Bill Area

Total Medical Price
Medical Tax

Total Grocery Price
Grocery Tax

Total Cold Drinks Price
Cold Drinks Tax

Billing Software

Customer Details
 Customer Name: Customer Phone: Bill Number:

Medical Purpose	Grocery Items	Cold Drinks
Sanitizer <input type="text" value="6"/>	Rice <input type="text" value="0"/>	Sprite <input type="text" value="0"/>
Mask <input type="text" value="0"/>	Food Oil <input type="text" value="0"/>	<input type="text" value="0"/>
Hand Gloves <input type="text" value="0"/>	Wheat <input type="text" value="3"/>	<input type="text" value="0"/>
Dettol <input type="text" value="0"/>	Daal <input type="text" value="0"/>	<input type="text" value="0"/>
Newsprin <input type="text" value="0"/>	Flour <input type="text" value="0"/>	Fanta <input type="text" value="5"/>
Thermal Gun <input type="text" value="0"/>	Maggi <input type="text" value="0"/>	Mountain Duo <input type="text" value="0"/>

Bill Area

Welcome Webcode Retail
 Bill Number: 2177
 Customer Name: Alice
 Phone Number: 8433599878

Products	QTY	Price
Sanitizer	6	12
Wheat	3	30
Fanta	0	50
Medical Tax		Rs. 0.6
Grocery Tax		Rs. 150.0
Cold Drinks Tax		Rs. 5.0
Total Bill:		Rs. 247.6

Bill Area

Total Medical Price	Rs. 12.0	Medical Tax	Rs. 0.6	<input type="button" value="Total"/> <input type="button" value="Generate Bill"/> <input type="button" value="Clear"/> <input type="button" value="Exit"/>
Total Grocery Price	Rs. 30.0	Grocery Tax	Rs. 150.0	
Total Cold Drinks Price	Rs. 50.0	Cold Drinks Tax	Rs. 5.0	

Billing Software

Customer Details
 Customer Name: Customer Phone: Bill Number:

Medical Purpose	Grocery Items	Cold Drinks
Sanitizer <input type="text" value="6"/>	Rice <input type="text" value="0"/>	Sprite <input type="text" value="0"/>
Mask <input type="text" value="0"/>	Food Oil <input type="text" value="0"/>	<input type="text" value="0"/>
Hand Gloves <input type="text" value="0"/>	Wheat <input type="text" value="3"/>	<input type="text" value="0"/>
Dettol <input type="text" value="0"/>	Daal <input type="text" value="0"/>	<input type="text" value="0"/>
Newsprin <input type="text" value="0"/>	Flour <input type="text" value="0"/>	Fanta <input type="text" value="5"/>
Thermal Gun <input type="text" value="0"/>	Maggi <input type="text" value="0"/>	Mountain Duo <input type="text" value="0"/>

Bill Area

Welcome Webcode Retail
 Bill Number: 2177
 Customer Name: Alice
 Phone Number: 8433599878


Products	QTY	Price
Sanitizer	6	12
Wheat	3	30
Fanta	0	50
Medical Tax		Rs. 0.6
Grocery Tax		Rs. 150.0
Cold Drinks Tax		Rs. 5.0
Total Bill:		Rs. 247.6

Bill Area

Total Medical Price	Rs. 12.0	Medical Tax	Rs. 0.6	<input type="button" value="Total"/> <input type="button" value="Generate Bill"/> <input type="button" value="Clear"/> <input type="button" value="Exit"/>
Total Grocery Price	Rs. 30.0	Grocery Tax	Rs. 150.0	
Total Cold Drinks Price	Rs. 50.0	Cold Drinks Tax	Rs. 5.0	

This PC > Local Disk (D:)

Name	Date modified	Type	Size
PythonProject1717	07-11-2023 00:19	Text Document	1 KB
PythonProject3159	07-11-2023 00:14	Text Document	1 KB

 PythonProject3159 - Notepad

File Edit Format View Help

Welcome Webcode Retail

Bill Number:3159

Customer Name:Akshit

Phone Number8433599878

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Products          QTY          Price
Sanitizer          6           30
Wheat              2           20
Mazza              7           70
Medical Tax                Rs. 1.5
Grocery Tax              Rs. 100.0
Cold Drinks Tax                Rs. 7.0
Total Bil:                Rs.228.5
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```

Link of Project:

[Billing Software](#)
