DepartmentofComputerScienceandEngineeringPES University,Bangalore,India

PythonforComputationalProblemSolving(UE24CS151A)

ProblemStatement:Level-2(Orange)

Faculties:Dr.Manjula K ,Dr.Deepu,Prof.Bharati,Prof Vidyashree   **Date:13[h]Dec,2024**

Dept.ofCSE,PESU   **Timing:1:45PMto4:00PM**

Problem:Café Data Analysis

Perform agriculture data analysis and find
1. Load the data from the CSV using GUI
2. Search for aitem
3. Display the item with the order details
4. Provide the rating for the restaurant in the scale 1-5

Dataset:Café Management System(cafe.csv)

Item	Price
Coffee	3
Tea	2.5
Sandwich	5
Cake	4
Chocolate	10
French Fries	20
Muffins	15
French Toast	25
Sprite	10
Coca Cola	10
Shawarma	30
Chicken Burger	25

Methodology:

LoadtheDataset-Loadthedatasetfromafileintotoa GUI.

DataExploration-Explorethedataset and perform operations on the various fields through GUI.

DetailedAnalysis-Makesureyouknowthesignificanceofeachcolumnandarowinagivendataset and access it through GUI widgets.
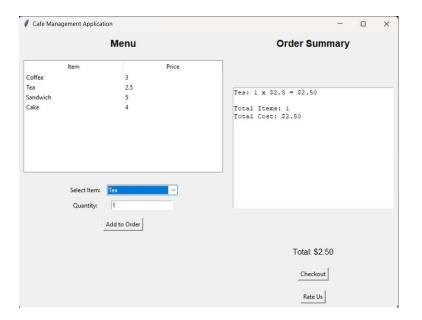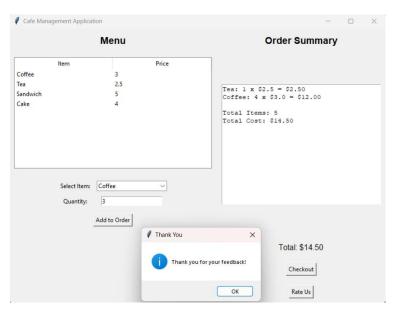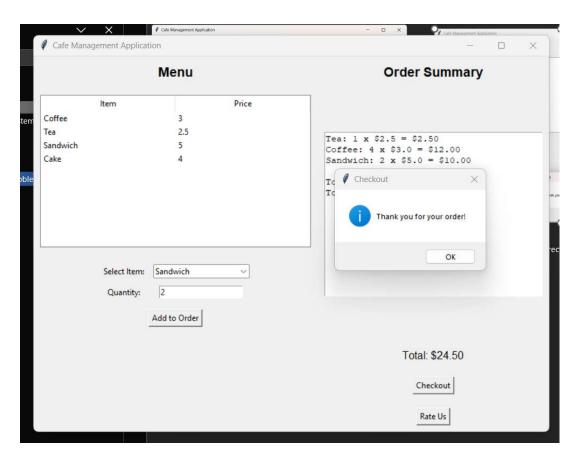
Implementation:

Language:Python3.10orabove.

- Usedatastructuressuchaslists,setsanddictstostoreandorganizethedata.
- Use callbacks,generators,decorators,closures
- Use/writeappropriatefunctions– SpecifictoDatastructuresandalsouserdefinedfunctionsforeachfunctionality.
- Makeuseofoperators,loopsandconditionals

- Using tkinter package and necessary modules

Expectedoutputforallsub-problems:

SubmissionMode:
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