

CSE108 – Computer Programming Laboratory

Spring 2022, Lab 4

This lab will be graded on a scale of 100. No collaboration is permitted.

Write a program that performs the following tasks respectively. You are going to write a “TechMarket Application” program.

PS: Don't use any library other than stdio.h, don't use arrays and strings.

Part 1. (20 pts) Menu:

The menu should be an infinite loop with do-while until select the EXIT.

Part 2. (25 pts) Buy Product:

Day, Selections in main menu and products should be enumerated type:

- Days (sunday, monday, tuesday, wednesday, thursday, friday, saturday)
- Products(harddisk, monitor, keyboard, mouse)
- Selections (buy, orders, prices, exit)

In this part, the user selects a product form list, then the user should select arrival day. Finally, the **Product** and **Day** should be written to the “orders.txt” file as an enum value. **DO NOT DELETE PREVIOUS ORDERS.**

Expected Output

```

Welcome to the TechMarket.
1. Buy Product
2. Orders
3. All Orders Prices
4. EXIT
-----
1
Select your product:
0. Harddisk
1. Monitor
2. Keyboard
3. Mouse
4. GO TO MAIN MENU
-----
0
Select your arrival day[0-6]:
Sunday, Monday, Tuesday, Wednesday, Thursday, Friday, Saturday
-----
1
  
```

Open  **orders.txt**
~/Desktop/lab4

0 1

Part 3. (20 pts) Orders: In this part, you need to list all orders with days. You should write a function named “readOrderFile(print_days)”. Also, you need to “void print_days(int day)” function as an argument(parameter) to readOrderFile function. Write a function that print_days takes day value [0-6] and print the terminal which day user selected.

Expected Output

```

Welcome to the TechMarket.
1. Buy Product
2. Orders
3. All Orders Prices
4. EXIT
-----
2
Product ID: 0,Day: Monday
  
```

Part 4. (35 pts) All Orders Prices: In this part, you need to read "orders.txt" file and write the terminal product name and day. Finally, you need to write total prices as Turkish Liras.

- Products prices and currencies must be **enumerated**.
 - Product Prices (Hard disk 2 Dolars, Monitor 5 Euro, Keyboard 3 Pounds and Mouse 10 Peso).
 - Currencies (1 Dolar = 4 TL, 1 Euro = 5 TL, 1 Pound = 9 TL and 1 Peso = 10 TL)
- Write an integer add and multiple function, send these functions as an argument(parameters). You also need to send the **print_days** function.
- Calculate **prices** as TL and write the terminal.

Expected Output

```
Welcome to the TechMarket.
1. Buy Product
2. Orders
3. All Orders Prices
4. EXIT
-----
3
Product: Harddisk,Day: Monday
Total prices: 8 TL
```