

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:

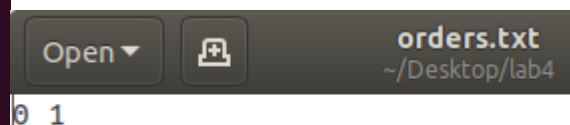
Day, Selections in main menu and products should be enumerated type:

- **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
```



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
```