



LINUX Laboratory ENCS3130

### TODO 3: Python Language

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You are required to build an online selling system (fruits and vegetables) using python language, the system (your program) should behave as follows:

1. In the beginning, the system will read two files into two dictionaries: [3 Marks]
  - First file contains the products info as the following:  
Product\_Name Product\_Quantity (kg) Product\_Price
  - Second file contains the value of the dollar against the shekel as the following:  
Dolar:Shekel
2. After that, your system will display the menu that shows in figure 1. [2 Marks]

```
1. Admin
2. User
3. Exit
Enter your option: 1 , 2 or 3
```

Figure 1: Main menu

From the above menu, you should choose the user mode (Admin or normal user) or to exit program.

3. If you choose the admin mode, then your system will display the menu that shows in figure 2. [7 Marks]

```
1. Display all products
2. Add/Edit a product
3. Exit from admin mode
Enter your option: 1 ,2 or 3
```

Figure 2: Admin Menu

- First option will display all products
- Second option will allow to the admin to add new product or edit an existing product, this option will ask the admin to enter the following data
  - ✓ Product name
  - ✓ Product quantity or quantity in Kg unit
  - ✓ Product Price in dollar \$.

Then this data will be added to the dictionary

- Third option will exit from admin mode and return to the main menu (figure 1).
4. If you choose the user mode, then your system will display the menu that shows in figure 3. [10 Marks]

```
1. Display all products
2. Buy a product
3. Display my account (shekels)
4. Exit from user mode
Enter your option: 1 ,2 or 3 █
```

Figure 3: User Menu

- First option will display all options
  - Second option will allow to the user to buy a specific product, this option will ask the user to enter the following data:
    - ✓ Product Name
    - ✓ Product Quantity or quantity (Kg): It will reduce the quantity value by the value chosen by the user
    - ✓ Then the user products will be added to the user card or account.
  - Third option will display all user purchases with the total price in **Shekels**.
  - Fourth option will exit from user mode.
5. If you choose the exit option from mean menu, the program will exit from mean menu and save the values of dictionary in the first file which was mentioned in point 1. Then it will print program finished. [3 Marks]

**Note:**

- your program should handle/validate user inputs. For example: [2.5 Marks]
    - if user enter the name of non-existing product then your system should tell user “this product is not found”
    - Also, If the user wants to buy a product whose quantity has ended, your system should tell the user “the product is not available”
  - You must build function that read the files into dictionaries. Also, you must handle file exceptions. [2.5 Marks]
- III. Late submission will looe Marks**

Good Luck 😊

