**File Handling Programming Task:**

Create a Product File Processing program with the following requirements:

* 1. The program will ask the user to **input** record of products with the following data:

PRODUCT CODE:

# PRODUCT NAME:

QUANTITY:

Enter more? [Y/N]: \_\_**N**\_\_ (continue to input if **Y**, \*validate your input)

* 1. The program will save the product records in a file “Products.txt”.
  2. The program will ask the user to select from the following options:

**A** – ADD **D** - DELETE **E** – EDIT **T** - TRANSACT **X** - EXIT

WHAT DO YOU WANT TO DO? \_\_\_\_\_

* 1. If the user selected **A**, the program will ask the user to input more records of products same as #1.1 and the inputted records will be appended to the file.

Note: Display again the options and ask what to do?

* 1. If the user selected **D**, the program will ask the user to input product code and search for it. If the product code is found, display the record of the product and ask for confirmation to delete the record, if yes, continue with the deletion, otherwise, asks again for another product code. If the product is not found, display “record not found”.

Note: Display again the options and ask what to do?

* 1. If the user selected **E**, the program will ask the user to input product code and search for it. If the product code is found, display the record of the product and ask the user to edit the records by inputting data same as #1.1 except Enter more? If the product code is not found, display “record not found”.

Note: Display again the options and ask what to do?

* 1. If the user selected **T**, the program will ask the user to input product code and search for it. If the product code is found, the user will input transaction code ‘**P**’ for Purchase or ‘**S**’ for Sold, then the user will input quantity of products Purchased or Sold, if the transaction code is ‘P’, add the quantity to the previous quantity saved on the file, otherwise, subtract the quantity from the previous quantity saved on the file. If the product code is not found, display “record not found”.

PRODUCT CODE:

# TRANSACTION CODE:

QUANTITY:

Note: Display again the options and ask what to do?

* 1. If the user selected **X**, the program will **display the updated file** and display “end of program”.
  2. Include try… except in your program.