# Hacettepe University

## Computer Science and Engineering Department

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| Identity Number | : | 21526619 |
| Course | : | BBM 104 – Introduction to Programing Lab II |
| Experiment | : | Programming Assignment 1 |
| Subject | : | Pharmacy Stock Management |
| Data Due | : | 09.03.2016 |
| Advisors | : | Dr.Fuat AKAL,  R.A. Alaettin UÇAN |
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| Main Program | : | JAVA |

## 2. Software Using Documantation

### 2.1 Software Usage

First of all I use given code that include args and read medicaments.txt and prescription.txt than created arraylist and add arraylist elements of txt files. Then ı eliminated social security admistration because patient social security admistration should same medicaments. I applied same operation to patient's medicine that is written in prescription text . Second ı had to compare priscription date and medicine date so ı used SimpleDateFormat and checked is prescription date between medicaments date and eliminated again. Finally ı eliminated medicinament price which is the more cheaper ı took it in one list and sum all of them and print medicine name cost and total price.

### 2.2 ErrorMessages

In my code used two try – cath block. If they are any argument it said "It needs two arguments for running" .

<ErrorNumber 1> : <IOException>
<In 223. line>      <Input file does not exist>
                    <Define argument>

<ErrorNumber 2> : <IOException>
<In 239. line>      <Input file does not exist>
                    <Define argument>

## 3.Software Design Notes

### 3.1 Desction of the Program

### 3.1.1 Problem

This assignment , read prescription and price list from input files from databse  and find suitable medicine name price and total price which is also have to ordinary. Find medicine that minimum price and in avaible date.

### 3.1.2 Solution

First check information of patient which is name surname social security administration patient priscription date and quantitiy and save this then reach database which is include all medicaments and compare to information eliminate unnecessary data and find the most suitable data. Its advantage is find correct data but disadvantage is if database very big program may be slow down.

### 3.2 Algothrim

1. Read files using arguments and split .
2. After read add list .
3. Take social security administration .
4. Compare social security administration to medicament and if the same define an arraylist add that list .
5. Take medicine name from prescription list and compare to 4.step list if the same define an arraylist and add that list .
6. Take medicament date and compare to 5.step list if the same define an araylist and add that list .
7. Take medicament price and compare to 6. Step list if the same define an arraylist and add that list .
8. Find quantitiy 7.Step medicine and multiple that. Sum reason this is total amount .

### 3.3 Special Design Properties

Actually ı am new in java programming so ı dont know another way to solve this problem but it should be more shorter and define more class, it can be write without using arraylist. May be solve this problem using recursive function.

## 4. Software TestingNotes

### 4.1 Bugs and Software Reliability

There is no bug in my code.

4.2 Comments

I think this problem is not hard but not easy too. We are just start to learning java and actually we dont know not much about programming java. We research it internet in lab class may be intended more programming java more simply way.

I submited my assignment on due time but 1 day later my friend told me your class name should be "Main" then I asked advisor my project's class name should be "Main" or could be different name? He told class name must "Main.java" so ı change this and submit 1 day later.

5. References

1. http://stackoverflow.com/
2. https://en.wikipedia.org/wiki/Javadoc
3. http://beginnersbook.com/
4. http://www.tutorialspoint.com/