Programming Languages and Compilation

Assignment_1 Regular Expressions

Q1) Write a Java program that uses *regular expressions* to determine the phone numbers of each mobile network in a **text file**, which it is belong to *STC*, *Zain* or *Mobily*, also count the numbers of *Landline* phone.

- For example: the output is a *file* that contains as follow:

    - STC: 7 users

    - Zain: 6 users

    - Mobily: 9 users

    - Landline: 4 users

> *Note*:   *STC* numbers started by " *050…*"
>
>   *Zain* numbers started by " *059…*"
>
>   *Mobily* numbers started by " *054…*"
>
>   *Landline* numbers started by " *011…*"

Q2) Write a Java program that uses *regular expressions* to determine the phone numbers in a **text file** that consist of **10 digits (Valid number)** and hide the number by *replacing first 7 digits by Stars* (as shown in the example)**, otherwise return invalid number.**

       example: **(*******321)**

(i.e. the output is a file that contains the same number after replacing "first 7 digits" with "*******_ _ _").

- **For this assignment you need to submit the following:**
  1- **Your JAVA code**
  2- **Samples of input and output (Screenshots)**

Due Date: <u>ONE WEEK ONLY</u>