**Question 1:** Using Regex in Java - email validation

Email definition:

- Start with a letter.

- Contains only letters, numbers and dashes (-).

- Contains an @ character, after @ is the domain name.

- Domain name can be **domain.xxx.yyy** or **domain.xxx**. Where **xxx** and **yyy** are letters and are 2 or more in length.

***Regex definition:***

|  |  |
| --- | --- |
|  | ^[a-zA-Z][\\w-]+@([\\w]+\\.[\\w]+|[\\w]+\\.[\\w]{2,}\\.[\\w]{2,})$ |

**Question 2:** Write a program to construct a PhoneException class that represents an invalid phone number error. Write a program to input a phone number (in the form of a string of numbers), if the phone number is not valid, the program will report an error.

**Required knowledge:**

* Knowledge of subclasses that inherit from the parent class. Here I will design the error message by building a class that generates the error message, this class inherits from the Exception class.
* Determine the data types for the functions and variables to use.
* Knowledge of regular expressions (Regular Expression).