**Important Instructions:**

* Please read the document thoroughly before you code.
* Import the given skeleton code into your Eclipse.
* Do not change the Skeleton code or the package structure, method names, variable names, return types, exception clauses, access specifiers etc.
* You can create any number of private methods inside the given class.
* You can test your code from main() method of the program

**Time: 2 hour**

**Assessment Coverage:**

* **Classes, Objects and Members**
* **Constructors, Operators and Control Flow Statements**
* **Exception Handling**

Many companies sell products over the internet. When doing that, getting credit card input over the internet becomes important. And then validating those credit card numbers becomes important. There are multiple validations we need to perform to check whether credit card number is valid or not. So, develop a java application to perform below validation on credit card number to check their validity.

1. The block listed numbers are listed in blacklist.csv we have to write the code to read the data from csv file validates the credit card number against blacklisted numbers.
2. Another validation is we need to check credit card number length is 16

Input:-

enter the Credit Card Number

4788384538552446

Output:-

Card is blocked

**Technical Requirements:**

You are required to develop an App which can provide the following service.

**API 1 (Requirement 1):** WriteJava class CreditCard with below member variables:

creditCardNumber of type String.

Define a **public** **parameterized constructor with all the above variables in the same order of parameters**, along with getter and setter methods.

**API 2 (Requirement 2):**

Create a class BasicCreditCardService that implements CreditCardService and write the below **public** methods:

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| **ClassName** | **Method Name** | **Input Parameters** | **Output Parameters** | **Logic** |
| CreditCardService | Validate | CreditCard card,String fileName | String | This method accepts card object and fileName as a parameter and validates a card number against block list and validates the length of card number is 16 digits or not. |
| CreditCardService | validateAgainstBlockList | CreditCard card,String file name | boolean | This method accepts CreditCard object and fileName as a parameter and checks the CreditCard is block listed or not. |
| CreditCardService | validateNumber | String number | boolean | This method accepts the creditcard number as a parameter and validates card number length is 16 or not |
| CreditCardService | getBlockListNumbers | String fileName | List<String> | This method accepts fileName as parameter and read creditcard numbers from file and returns list of credit card numbers. |

**Design Constraints:**

* The block listed credit card numbers are hard coded in blocklist.csv file.

**General Design Constraints:**

* Ensure that all the Java Coding Standards are followed.
* Assume that the method inputs are valid always, hence exceptional blocks are not needed to be included in the development.