Practical Exam Fall 2019  
Subject: PRO192  
Duration: 80’

Based on java language, you are required to create an application like description below.

Create a package A, it contains:

1. A class named “**Account**”. This class includes: String email, String password and some methods: constructors, getters, setters.

Validate: Password length is from 8 to 12 characters

Password only contains a..z, A..Z, 0-9 [**3**]

1. A class named “**AccountList**” to store all account objects (using ArrayList). This class implements some methods:

**boolean addAccount(Account newAcc):** to add a new account to the ArrayList **[1]**

**int login(String email, String password)**: check given email and password have existed in the arraylist and return the index that satisfying conditions **[2]**

**Boolean UpdatePassword(String newPassword, int UpdateIndex)**: update new password to the account that is storing at the UpdateIndex. **[3]**

Create a package named “B”, It contains a class “Test”. The main method is implemented in here.

When the program runs, it shows a menu: **[1]**

1. Add a new Account
2. Login.
3. Exit

If user chooses option 2 then the program calls the method “login”. This method returns true then shows a message “Do you want to update your password?” . User inputs “Y” then the program calls the method UpdatePassword

The End