

## Program packages Template

Note: Remove the text written in **red** then replace them with your answers.

### 1. Student/Project Information:

Here you need to fill in information related to you and the selected project.

Student Name:	Alaa Hossam Eldin Maamoun Aly Mahmoud Aly Ahmed Abdelrhman Mohamed Azouz
Student's Section Number:	3
Selected project:	Bank Management System
Project description:	Our project is bank management system that will support creating accounts for new clients, login for old clients and banking transaction (Withdraw & Deposition).

### 2. Code Information:

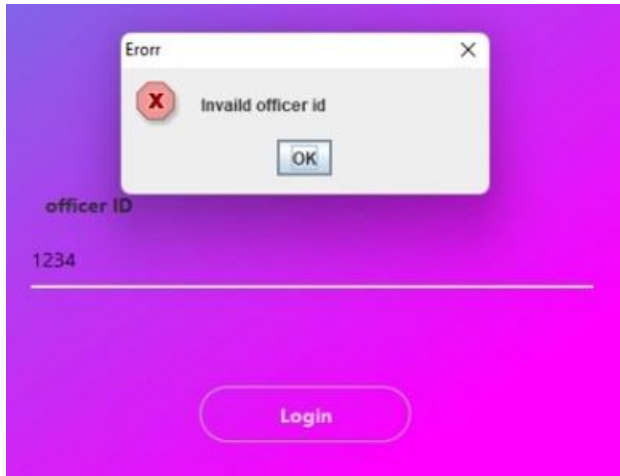
Here we want you to write what your code does in words. Therefore, for each a group of lines you must tell us what it outputs.

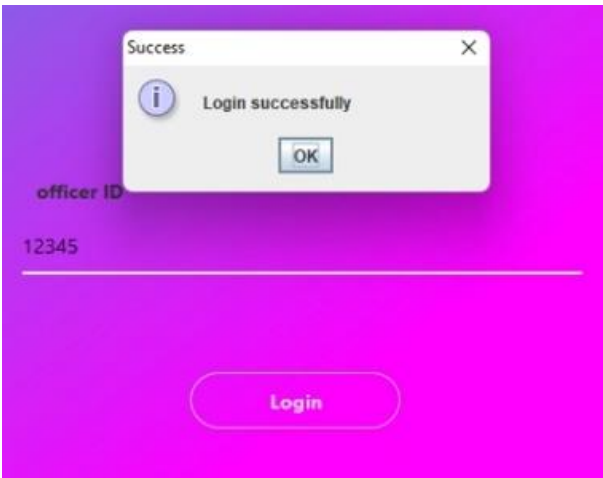
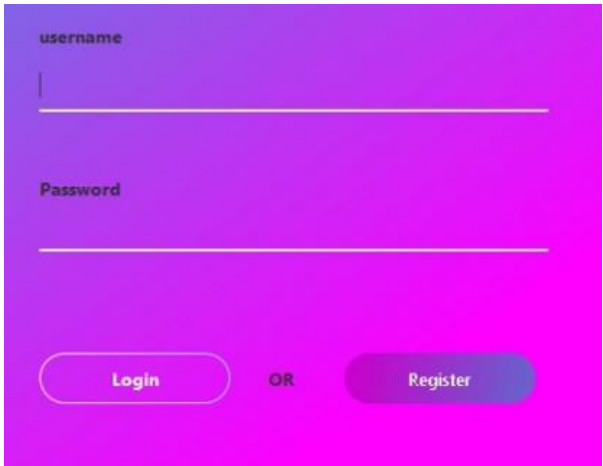
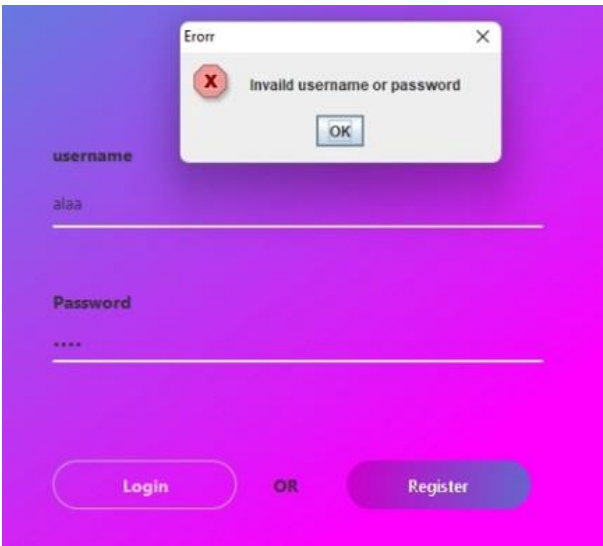
#	Line number (from-to)	Function name	Description
1	12-40 (Database Class)	Login	This function receives login parameters(username & password) check them with the existing usernames and password for created accounts and returns integer (1) if exist, (0) if not exist, (-1) for SQL exception And (-2) for class not found exception
2	41-64 (Database Class)	registration	This function receives all registration required data (username , password ,address , age , national id ,gender ,email ,balance) and insert them into the database table assigning creating new account
3	65-94 (Database Class)	getData	This function receives username and an object of Account class to be able to access account data from database and put them in Account parameters to view them on GUI frames and make operations on balance.
4	95-118 (Database Class)	updateBalance	This function receives an object of WithdrawC and update new balance after withdraw operation performed into database table

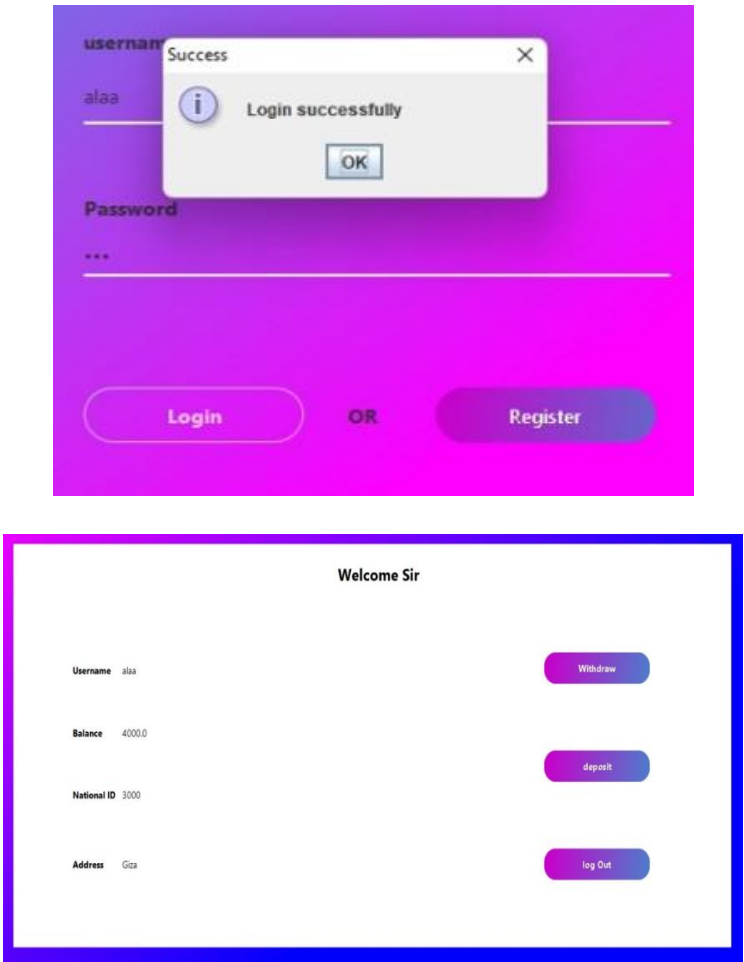
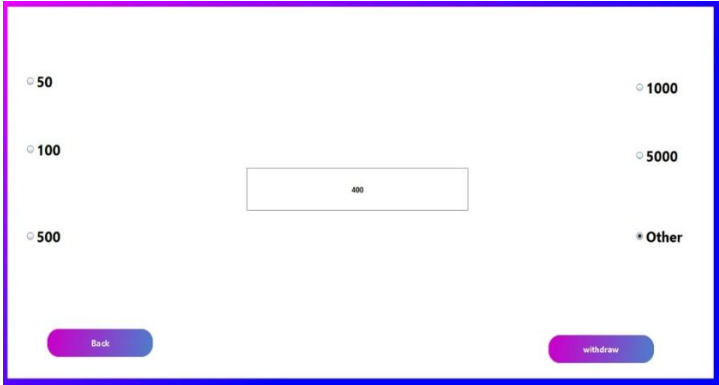
5	119-142 (Database Class)	updateBalance	This Method is overloaded from the previous method . it takes an object from Deposition class and update new balance after withdraw operation performed into database table
6	35-39 (Account Class)	initBalance	Initiate new account balance with 200L.E
7	30-61 (Officer Class)	login	Receives officer ID to login with it to the client interface
8	25-29 (Deposition Class)	updateBalance	Adds the deposited money to the current balance and return the updated balance
9	25-28 (WithdrawC Class)	checkBalance	A Boolean function Checks if the current balance is greater than or equal the withdrawn amount and return true else return false
10	29-39 (WithdrawC Class)	updateBalance	Subtracts the withdrawn money from the current balance and return the updated balance


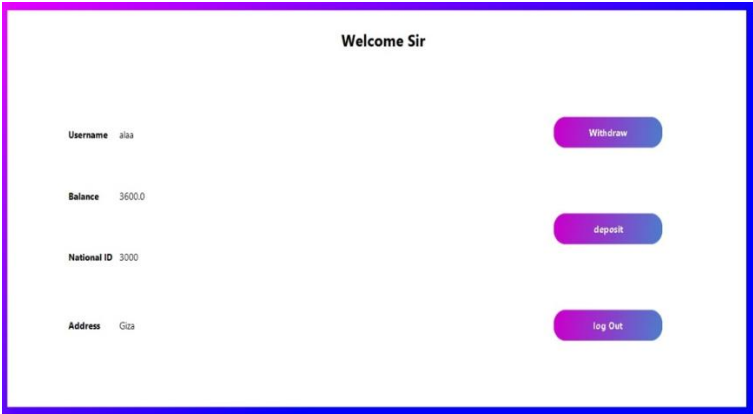

### 3. Snapshots:

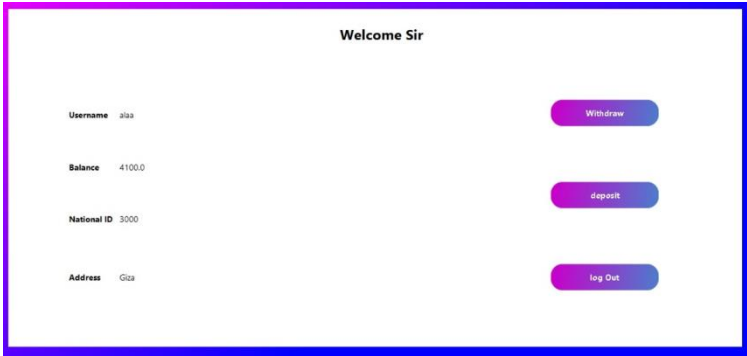
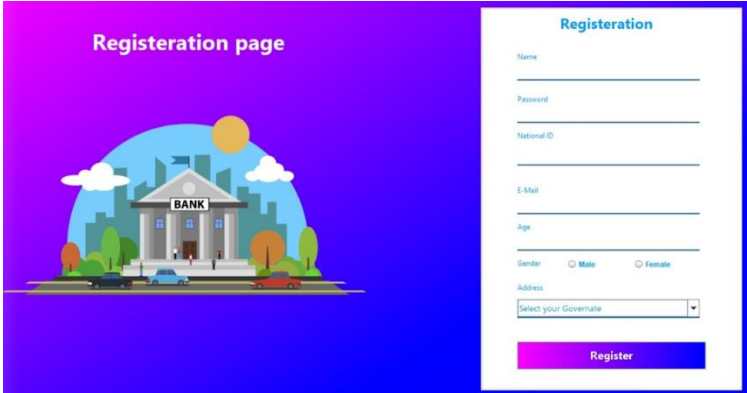
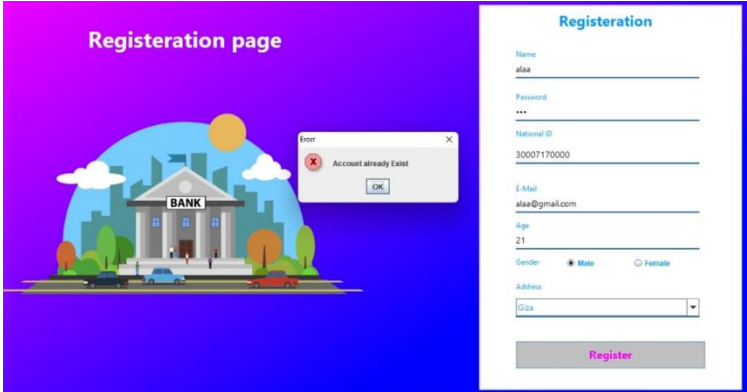
Here you need to upload screenshots taken by you when executing your project.

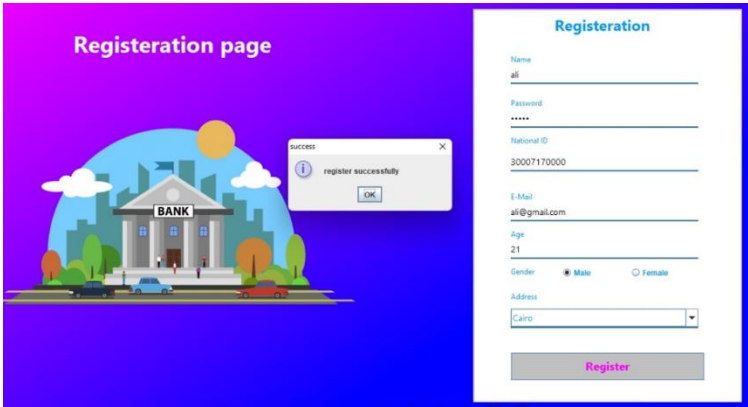
#	Inputs	Outputs	Screenshots
1	Invalid Officer ID	Error Message "Invalid officer id"	 <p>The screenshot shows a login window with a purple gradient background. It features a text input field labeled 'officer ID' containing the value '1234' and a 'Login' button. A red error dialog box is overlaid on top, displaying the message 'Invalid officer id' with an 'OK' button.</p>

2	Valid Officer ID	Information Message called "Login successfully" And enter the customer interface	 <p>The screenshot shows a login interface with a purple gradient background. At the top, there is a white dialog box titled "Success" with a close button (X) in the top right corner. Inside the dialog, there is an information icon (i) and the text "Login successfully", with an "OK" button at the bottom. Below the dialog, the text "officer ID" is followed by the input "12345". At the bottom, there is a rounded button labeled "Login".</p>  <p>The screenshot shows a login interface with a purple gradient background. It features two input fields: "username" and "Password". Below the "Password" field, there are two rounded buttons: "Login" and "Register", separated by the text "OR".</p>
3	Invalid account's Username & Password	Error Message "Invalid username or password"	 <p>The screenshot shows a login interface with a purple gradient background. At the top, there is a white dialog box titled "Error" with a close button (X) in the top right corner. Inside the dialog, there is an error icon (X) and the text "Invalid username or password", with an "OK" button at the bottom. Below the dialog, the text "username" is followed by the input "alaa". Below the "Password" field, there are two rounded buttons: "Login" and "Register", separated by the text "OR".</p>

4	Valid Account's Username & Password	<p>Information Message called Success "Login successfully" And enter this account's Account Details interface</p>	 <p>The image shows two screenshots from a mobile application. The top screenshot is a login screen with a purple gradient background. It has input fields for 'username' (containing 'alaa') and 'Password' (masked with '***'). Below these are 'Login' and 'Register' buttons, separated by an 'OR' label. A white dialog box titled 'Success' is overlaid on the screen, displaying an information icon, the text 'Login successfully', and an 'OK' button. The bottom screenshot is the 'Welcome Sir' account details screen, which has a white background and a blue border. It displays user information: Username: alaa, Balance: 4000.0, National ID: 3000, and Address: Giza. On the right side, there are three blue buttons: 'Withdraw', 'deposit', and 'log Out'.</p>
5	Enter the Withdrawn amount of money	<p>Respond to this withdraw request after checking if this amount less than the current balance or not</p>	 <p>The image shows a withdrawal screen with a white background and a blue border. It features a central input field containing the number '400'. To the left of the input field are three radio button options: '50', '100', and '500'. To the right are two more radio button options: '1000' and '5000', followed by a text input field labeled '* Other'. At the bottom of the screen, there are two blue buttons: 'Back' on the left and 'withdraw' on the right.</p>

			
6	Subtracting the amount of withdrawn money from the current balance	The Account's Account Details interface after updating the balance after a withdraw operation	
7	Enter the deposited amount of money	Respond to this deposit request	

8	Adding the amount of deposited money to the current balance	The Account's Account Details interface after updating the balance after a deposition operation	
9	Logout and back to the Customer interface and begin to register	Registration interface	
10	Registration for an already existing account	Error Message "Account already Exist"	

11	Registration for a new account	Information Message called "register successfully"	
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