**Assignment 4**

**Due date: Thursday, March 20, 2022, 11:59pm**

**Instructions:**

* For each day of late submission, 10 points will be deducted.
* After two days, no more submission is allowed.
* You must submit through Canvas.
* Keep this file intact, copy your solution codes from your IDE and paste at the bottom of the file under ‘Answer’. Submit this word document with your codes. Do not change the format of the file to pdf or .rar or anything else.

**Reminder:** [**Academic Integrity**](https://www.njit.edu/dos/code-student-conduct-article-11-university-policy-academic-integrity)policy is strictly implemented for all your submissions.

If any two submissions are similar, both will be graded zero and there will be further consequences.

Write a Java Servlet Program that represents a pseudo ATM machine where user will authenticate their userID from the client side and after successful authentication make a deposit, withdraw funds and get current balance information.    
  
Following are minimum requirements:

You will develop a client side and a Servlet program that will work with a database.

1. The client (front end) should have a title “NJIT Credit Union”, centered.
2. The client should have a background color.
3. The client should have a text field with label ‘UserID’ where user will enter userID (integer) and a Submit button with text “Submit”.
4. An unsuccessful authentication should have a message printed on the screen, in red, stating that “Your authentication has failed, please try again.” (no pop up message). At this point the text field should get cleared and ready to accept a new input. Your program should not exit.
5. A successful authentication should be followed by a message on the screen, in green, stating that “Your authentication is successful” (no pop up message).
6. There should be two other text boxes with label “Deposit” and “Withdraw” where user will enter an amount (you should accommodate for decimals). These two text boxes should only be enabled after successful authentication and the initial values will be blank. You have the choice to use either text boxes or radio buttons or check boxes – whatever is suitable for you.
7. If a deposit is made, there should be a message on the screen, in green, with the current balance which should include the deposited amount.
8. For withdrawal, you must check if the amount is available, if not available, print a message on the screen, in red, stating that “There is insufficient funds, please try a smaller amount”. The text field should clear and ready to accept a new amount. If fund is available, go ahead with the transaction and print current balance on the screen, in green.
9. Database info:

A. Create a database “ATM”  
B. Create a table ‘accountInfo” in that database with the following:

userID Name Balance  
101 Jane 2270.25  
102 John 903.65

**Submission:** This is what you have to submit (zip up all the files mentioned below and submit the zip file):

1. Client program
2. Screen shot of the client after you run the client program
3. Screen shot of a failed authentication
4. Screen shot of a successful authentication
5. Screen shot after making a deposit (an amount with decimals)
6. Screen shot after an unsuccessful attempt to withdraw (an amount with decimals and of course larger than current balance)
7. Servlet program
8. Screen shot of the table with two rows of data in it.