Assignment 1 – Classes

Problem Description:

You are required to design a program for a banking system. The program should interactively deal with the ATM user and provide different banking services.

Code Structure:

You are required to construct a class named **ATM**; this class has the following members:
Variables: (Note: for string variable use only C-style strings)
Account name: holds the name of this account owner, which is of maximum 100 letters.
Card number: the card number of this account, which consists of 10 numbers
Amount: the amount of money in the account

Functions:
create_new_acc(): this member function is used to create a new account, entering the name and the card number
Deposit(): this function adds the deposited amount to the money in the account + 1% of the deposited amount added
Withdrawal(): this function withdraw money from the money in the account + 3% deduced from the account
Transfer(): this function transfers money from a sending account to a receiving account, deducing 1.5% from both accounts
Print_acc_data(): prints the account name, card number, and amount of money

Constants and Equations:

- The maximum number of accounts is 100 accounts

- When depositing, an extra 1% of the depositing amount is added to the account

- When withdrawing, an extra 3% of the withdrawn amount is deduced from the account

- When transfer, each user has 1.5% deduced from each account

- The program should interactively deal with the ATM user, until the user requests to terminate the program (see the program flow in the video and this link, you are required to exactly follow the data printed and how they're printed, marks might be deduced to not following that)

- About half of the mark will be given when dealing with different corner cases (ie: entering card number of other than 10 numbers, etc..)

- Illustration video link

Submission instructions:

1- The task is assigned to groups of 3 students.

2- Submit a single .cpp file that contains your whole code including everything mentioned.

3- Use exactly the same functions and variable names.

4- Name your file exactly as “Section_BN_Section_BN_Section_BN.cpp”. (Example: three students, the first one section 1 and BN 23 and the second one section 2 and BN 3, and the third one section 4 and BN 35 then your file name should be 1_23_2_03_4_35.cpp)

5- Copied codes will be given ZERO.

6- Deadline: Friday 3 June – 11:59 PM (Any delayed submissions will be given ZERO)