The University of Melbourne

School of Computing and Information Systems

COMP90041 Programming and Software Development

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Semester 2, 2020, Week 9

Workshop Instructions

Additional Exercises

Chap9_Question2 and Chap9_Question3

2. Define a class to maintain bank accounts of customers. The program should place the code into a `try-catch` block with multiple catches to check for the validity of various attributes based on the following criteria.

   a. Customer ID must start with a letter and should be followed by three digits.

   b. Account number must be of five digits.

   c. Initial balance must be above $1000.

   Print suitable error matches within the catch block. If any of the criteria mentioned above is not fulfilled, the program should loop back and let the user enter new data.

3. Modify the previous exercise to include methods for amount deposited and amount withdrawn. Create your own `exception class` which will check inside the method for the amount deposited so that after the deposit, the maximum balance in the account must not be more than $5000. Also, check inside the method for amount withdrawn so that the available balance after the withdrawal does not go below $1000. Invoke the defined methods from your `main` method and catch the exceptions.