Algorithm to create a basic ATM user interface

Step 1: Start

Step 2: Declare variables. Account number, pin, Acc. No. & pin to be checked, amount to be withdrawn and minimum balance as integer. Name as a string and balance as a real number.

Step 3: Ask the user if they wish to use predefined values or if they wish to enter new values.

Step 3.1: If they wish to use pre-existing values, assign some values to account number, pin, balance, name, etc.

Step 3.2: If they wish to define their own values, then take the values from the user.

Step 4: Get the account number and pin to be verified and used for transaction from the user.

Step 5: Check if the Account number and pin entered match the old values.

Step 5.1 If they match. ask the user for the amount they wish to withdraw.

Step 5.2.1 Check if the balance is above minimum balance, and if the balance would stay above minimum balance after the transaction.

Step 5.2.1.1 If the above conditions are met, then let user withdraw money and update balance

Step 5.2.1.2 Ask if the user wishes for a receipt

Step 5.2.1.2.1 If yes, then display user details as receipt

Step 5.2.1.2.2 Else if no, then continue.

Step 5.2.2 Else, if the balance is below Minimum balance

Step 5.2.2.1 Print the error message saying balance is too low

Step 5.2.2.2 Else, print the error message saying that if the amount is withdrawn, the balance would go below minimum balance.

Step 5.2 Else if they don’t match, print an error message saying invalid credentials