1: Read Accounts

START

READ account from file Accounts.txt

WHILE account exists

Create new account

Insert account on list

END WHILE

END

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2: Write Accounts

START

READ account from list

WHILE account exists

Print account on file Accounts.txt

END WHILE

END

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3: Read Customers

START

READ customer from file Customers.txt

WHILE customer exists

Create new customer

Insert customer on list

END WHILE

END

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4: Read Supervisors

START

READ supervisor from file Supervisors.txt

WHILE supervisor exists

Create new customer

Insert on supervisor list

END WHILE

END

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5: Validate User

START

Count = 1

WHILE Count < 3

READ name, pin

If Find name,pin in Customers list

RETURN TRUE

ELSE

Count+=1

PRINT invalid user message

END WHILE

PRINT max attempts message

RETURN FALSE

END

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6: Withdraw

START

READ amount

WHILE (amount > 1000) OR (amount %10 != 0)

PRINT Invalid amount message

READ amount

END WHILE

READ account

WHILE account NOT exist

PRINT Invalid account message

READ account

END WHILE

IF account balance < amount

PRINT Insufficient balance error

RETURN

ELSE

IF (ATM balance >= amount)

Account balance -= amount

ELSE

PRINT Insufficient balance on ATM message

END

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7: Deposit

START

amount = 0

READ amount

WHILE amount <= 0

PRINT Invalid amount message

READ amount

END WHILE

READ account

WHILE account NOT exist

PRINT Invalid account message

READ account

END WHILE

Account balance += amount

END

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8: PayBill

START

Fee = 1.25

READ amount

WHILE (user chequing account balance < (amount+fee)) OR (amount > 10000)

PRINT Invalid amount message

READ amount

END WHILE

user chequing account balance -= amount+fee

END

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9: TransferFunds

START

READ amount, type

WHILE (amount > 100000)

PRINT Invalid amount message

READ amount

END WHILE

IF (5A: Check if user has both accounts types)

IF (type == to savings)

IF (Chequing account balance >= amount

Chequing account balance -= amount

Savings account balance += amount

ELSE

PRINT Insufficient funds error

RETURN

ELSE

IF (Savings account balance >= amount

Savings account balance -= amount

Chequing account balance += amount

ELSE

PRINT Insufficient funds error

RETURN

ELSE

PRINT User needs both chequing and savings account error

END

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10: PayInterest

FLOWCHART

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11: Take Out Of Service

START

ATM availability = false

END

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12: Refil ATM

FLOWCHART

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