**BEGIN MAINPROGRAM Validation**

Display Welcome ATM system ;

Customer insert card into ATM System ;

IF Card can read THEN

Get information Card from Database ; //call GetInformationCard

IF CardNo valid THEN

Display screen Authentication

ELSE

Display Invalid Card Screen

Eject card.

ENDIF

ELSE

Worng Card Screen

Eject card.

ENDIF

**END MAINPROGRAM Validation**

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**BEGIN MAINPROGRAM Authentication**

Display Screen Authentication ;

Customer entered PIN into ATM System ;

Customer click Enter or Submit button;

Get PIN Card from Database ; //call GetInformationCard

IF TimeInputted >= 3 THEN

Display Block Screen;

Set Status of Card = “Block”;

Call function Swallow card;

END IF

IF PIN Valid THEN

Display Screen Transaction;

ELSE

Display Screen Wrong PIN;

Prompt customer to re-enter PIN

ENDIF

**END MAINPROGRAM Authentication**

**BEGIN MAINPROGRAM Log**

IF Any transaction successed THEN

Create new object Log;

Call function Insert Log;

END IF

**END MAINPROGRAM Log**