**SIMPLE ATM ALGORITHM**

1) START

2) Declare variables AccntNo as integer, NAME as string, BALANCE as Real

3) Input AccntNo, NAME, BALANCE

4) If BALANCE<500, Print=” INSUFFICIENT FUNDS”

5) ELSE:

4.1.1) Declare variables PIN1, PIN2

4.1.2) Assign value to PIN1

4.1.3) Input PIN2

4.1.4) If PIN2=PIN1

4.1.4.1) Declare Variable WDA

4.1.4.2) Input WDA

4.1.4.3) If WDA>BALANCE: Print=” INSUFFICIENT BALANCE”

4.1.4.4) Else:

4.1.4.4.1)” WITHDRAWN AMOUNT IS” &WDA

4.1.4.4.2) Declare variable RB

4.1.4.4.3) Assign RB= BALANCE- RB

4.1.4.4.4) Print RB

4.1.4.4.5) If RB<500: Print="PLEASE DEPOSIT SUFFICIENT FUNDS AS MINIMUM BALANCE IS NOT REACHED"

4.1.5) Else: Print= “Insufficient funds”

6) Print “THANK YOU FOR USING ATM SERVICES”

7)STOP

**FULL ATM ALGORITHM**

1) START

2) Declare variables AccntNo as integer, NAME as string, BALANCE as Real, PIN1 as integer

3) Assign default values for AccntNo, NAME, BALANCE and PIN1

4) Print the list of options that is 1. Withdrawal, 2. Deposit money, 3. Check Balance, 4. Change Pin

5) Declare variable CH as integer

6) Input CH

7) If CH=1:

7.1) Declare variable PIN2

7.2) Input PIN2

7.3) If PIN2=PIN1

7.3.1) Declare Variable WDA

7.3.2) Input WDA

7.3.3) If WDA>BALANCE: Print=” INSUFFICIENT BALANCE”

7.3.4) Else:

7.3.4.1) Print =” WITHDRAWN AMOUNT IS” &WDA

7.3.4.2) Declare variable RB

7.3.4.3) Assign RB= BALANCE - WDA

7.3.4.4) Print RB

7.3.4.5) If RB<500: Print="PLEASE DEPOSIT SUFFICIENT FUNDS AS MINIMUM BALANCE IS NOT REACHED"

7.4) ELSE

7.4.1) IF CH=2:

7.4.2) Print “Current Balance=” &BALANCE

7.4.3) Declare Variable DPA

7.4.4) Input DPA

7.4.5) Declare NB

7.4.6) Assign NB= DPA + BALANCE

7.4.7) Print “NEW BALANCE=” & NB

7.4.8) ELSE

7.4.8.1) IF CH=3:

7.4.8.2) Print “BALANCE AMOUNT IN ACCOUNT=” &BALANCE

7.4.8.3) ELSE

7.4.8.3.1) IF CH=4:

7.4.8.3.2) Declare variable PIN3

7.4.8.3.3) Input PIN3

7.4.8.3.4) IF PIN3=PIN1

7.4.8.3.4.1) Declare variables PIN4, PIN5

7.4.8.3.4.2) Input PIN4, PIN5

7.4.8.3.4.3) If PIN4=PIN5

7.4.8.3.4.3.1) Assign PIN1=PIN4

7.4.8.3.4.3.2) Else Print “New Pins do not match”

7.4.8.3.5) ELSE

7.4.8.3.5.1) Print “Option entered is not valid.”

7.4.8.3.5.2) Print “Please try again later.”

8) Print “THANK YOU FOR USING ATM SERVICES”

9) STOP