PSEUDOCODE FOR BANK MANAGEMENT

//declarations of variables and arrays

DECLARE accnum, assistance, foundfname, foundsname, option, key, k,r AS INTEGER

DECLARE lang, fname, sname AS CHAR

DECLARE withdraw, balance, deposit AS REAL

DECLARE pwd1, pwd2, extpwd AS INTEGER

DECLARE gender AS ARARY [0:99] OF CHAR

DECLARE pwd AS ARRAY [0:99] OF INTEGER

DECLARE acc AS ARRAY [0:99,0:1] OF CHAR

DECLARE accdetails AS ARRAY [0:99,0: 3] OF REAL

DECLARE totalacc, maxacc, x, credentials AS INTEGER

maxacc=100

X=0

OUTPUT “\*\*\*\*\*Bank Initialization\*\*\*\*\*”

OUTPUT “can only be done by the manager”

Key=1234

DO

OUTPUT “Enter key:”

INPUT k

If k <> key THEN OUTPUT “Incorrect key!”

END IF

WHILE (k<>key)

OUTPUT “Enter the number of accounts to be on the server maximum 100 acc:”

INPUT totalacc

IF total acc > maxacc

THEN

OUTPUT “Maximum account limit reached, please restart and enter a number less than or equal to 100”

r=1

END IF

WHILE (r=1)

DO

OUTPUT “\*\*\*\*\*DEUTCH BANKING NETWORK\*\*\*\*\*”  
OUTPUT “Welcome to Commerce Banking Network-CBN”  
OUTPUT “G--GERMAN”  
OUTPUT “E--ENGLISH”  
OUTPUT “Please select your language, enter the initials of the languages given:”

INPUT lang

WHILE (lang <> G AND LANG <> E)

DO

OUTPUT “Enter from the options above!”

OUTPUT “G--GERMAN”  
OUTPUT “E--ENGLISH”  
OUTPUT “Please select your language, enter the initials of the languages given:”

INPUT lang

END WHILE

CASE Of lang

E:

OUTPUT “Language selected: English”

DO

OUTPUT “1--New Account”

OUTPUT “2--Existing Account”

OUTPUT “Choose an option from above:”

INPUT option

IF option <> 1 AND option <> 2

THEN OUTPUT “Enter from the options above!”

END IF

WHILE (option<>1 AND option<>2)

CASE Of option

1:

IF x>= total account

OUTPUT “Account limit reached. Call manager to increase the limit.”

REPEAT

DECLARE y AS INTEGER

y=0

OUTPUT “Enter manager key to increase limit:”

INPUT key

IF key=1234

THEN

OUTPUT “Enter the new total number of accounts must be <100”

DECLARE newtotal AS INTEGER

INPUT new\_total

IF new\_total > totalacc AND new\_total <= maxacc

THEN totalacc = new\_total

OUTPUT “Account limit increased successfully.”

ELSE OUTPUT “Invalid new limit.”

END IF

ELSE

OUTPUT “Incorrect key, enter again.”

y=1

UNTIL y=o

END IF

OUTPUT “Enter your first name initials:”

INPUT acc[x][1]

OUTPUT “Enter your second name initials:”

INPUT acc[x][2]

DO

OUTPUT “M-Male”

OUTPUT “F-Female”

OUTPUT “Select your gender:”

INPUT gender[x]

IF gender[x] <> ‘M’ AND gender[x] <> ‘F’

THEN OUTPUT “Either Choose from the options given or consult a doctor!”

END IF

WHILE (gender[x] <> M AND gender[x] <> F)

DO

OUTPUT “\*\*Your NIC number will be your passcode\*\*”

OUTPUT “Enter NIC number:”

INPUT pwd1

OUTPUT “Confirm NIC number:”

INPUT pwd2

IF pwd1<>pwd2

THEN OUTPUT “Please enter correct NIC number again!”

END IF

WHILE (pwd1<>pwd2)

pwd[x]=pwd1

accdetails[x][1] = 0

accdetails[x][2] = -100

accdetails[x][3] = 200

x=x+1

OUTPUT “Your account is successfully created!”

OUTPUT “Some info for new users:”

OUTPUT “Your current balance is 0.00”

OUTPUT “You have an overdraft limit of 100”

OUTPUT “You have a withdrawl limit of 200”

OUTPUT “After a year your overdraft and withdrawl limit will be increased”

OUTPUT “Thank you for joining with us.”

OUTPUT “Take care.”

CASE 2:

DO

credentials=0

DO

OUTPUT “Enter your first name initial:”

INPUT fname

OUTPUT “Enter your second name initial:”

INPUT sname

foundfname=0

foundsname=0

DECLARE i AS INTEGER

FOR i=0 to i<x

IF acc[i][1] = fname

THEN

foundfname = 1

IF acc[i][2] ==sname

THEN

foundsname = 1

accnum=i

credentials=1

END IF

END IF

NEXT i

IF foundfname = 0 OR foundsname = 0

OUTPUT “Error, correct your initials”

credentials=0

END IF

WHILE (foundfname=0 OR foundsname=0)

DO

OUTPUT “Enter your NIC number:”

INPUT extpwd

foundfname=0

IF pwd[accnum] = extpwd

THEN

foundfname = 1

credentials=1

END IF

IF foundfname = 0

THEN

OUTPUT “Please enter correct NIC number!”

credentials=0

END IF

WHILE (foundfname=0)

ENDWHILE

WHILE (credentials <> 1)

ENDWHILE

DO

OUTPUT “1-Withdraw”

OUTPUT “2-Deposit”

OUTPUT “Select the assistance you want, enter the respective number:”

INPUT assistance

CASE Of assistance

1:

OUTPUT “Enter the amount you want to withdraw:”

INPUT withdraw

balance = accdetails[accnum][1]

IF balance-withdraw >= accdetails[accnum][2] AND withdraw <= accdetails[accnum][3]

THEN

accdetails[x][1] = accdetails[x][1]-withdraw

OUTPUT “Transaction successful your current balance is”, accdetails[x][1]

ELSE OUTPUT “Insufficient funds or withdrawl limit exceeded”

2:

OUTPUT “Enter the amount you want to deposit:”

INPUT deposit

accdetails[x][1] = deposit + accdetails[x][1]

OUTPUT “Transaction successful! Your current balance is”, accdetails [x][1]

OTHERWISE OUTPUT “Enter from the options above”

END CASE

WHILE (assistance <> 1 AND assistance <>2);

OTHERWISE OUTPUT “Enter from the options above”

ENDCASE

G:

//CODE REPEATED IN GERMAN

ENDCASE

ENDWHILE