Pseudocode

Main() Function

Begin

Declare option

Display (“WELCOME TO Malaysia Bank\nUser Type\n1. Admin\n2. Customer\n3.Exit”)

Display “Kindly enter your choice: “

Read option

If (option==1)

Get admin credentials till correct and call admin\_function()

If (option==2)  
 call customer function

If (option==3)  
 exit program

End

Admin\_function() Function

Begin

Declare option

Display (“Welcome Admin \1. Display New Customer’s Registration Request \n 2. Approve / Reject New Customer detail \n 3. Provide Loan detail to New Registered Customer \n 4. Search and Display all transactions of specific customer \n 5. Search and Display all transactions of specific Loan type (EL/CL/HL/PL). \n 6. Display all transaction of all customer \n 7. Display all transaction of all types of Loan \n 8. Exit”)

Display “Kindly enter your choice: “

Read option

If (option==1)

Read and display New\_Customer.txt file, call admin\_function()

If (option==2)  
 Read and display New\_Customer.txt file

Declare and Read customerID from admin, search and display this customer from file data.

Declare and Read status from admin

If(status==’Approved’)  
 store information with status in Registered\_Customer.txt.

If(status==’Rejected’)  
 store information with status in Rejected\_Customer.txt.

Call admin\_function()

If (option==3)  
 Read and display New\_Customer.txt file

Declare and Read customerID from admin, search and display this customer from file data.

Assign random loanID to customer’s loan and validate in file.

Declare and read installmentDate from admin.

Declare and read installmentmonth from admin.

Declare and read loanterm from admin.

Declare and read loantype from admin.

Declare and read loanstatus from admin.

Store entry against customer ID in Loan\_Registered\_Customer.txt.

Call admin\_function()

If (option==4)

Declare option  
 Display (“1. Customer ID\n2.Loan ID\n”)

Read option

If(option==1)

Declare and read customer ID

Read Loan\_Registered\_Customer.txt file and display customer with read customer ID else give invalid id message

If (option==2)

Declare and read loan ID

Read Loan\_Registered\_Customer.txt file and display customer with read loan ID else give invalid id message

Call admin\_function()

If(option==5)

Declare option  
 Display (“Enter Loan Type (EL/HL/PL/CL): ”)

Read Loan\_Registered\_Customer.txt file and display loans of selected type

Call admin\_function()

If(option==6)

Read and display Customer\_Transaction.txt file

Call admin\_function()

If(option==7)

Read and display Customer\_Transaction.txt file

Call admin\_function()

If(option==8)

Exit program

End

Customer\_function() function

Begin

Declare option

Display (“WELCOME TO MBOLMS \n 1. Login (if you are registered customer) \n 2. Sign up (if you are new customer) \n 3. Back to Main Menu \n 4. Exit”)

Display “Kindly enter your choice: “

Read option

If(option==1)

Call register\_customer()

If(option==2)

Call newCustomer()

If(option==3)

Call main()

If(option==4)

Exit program

End

Register\_customer() function

Begin

Declare flag

Call validateUser() and set flag

If(flag==1)

Break

End

validateUser() function

Begin

Declare and read userId

Read data from Registered\_User file.

If(userId)

Declare and read password

If (password)  
 read and compare data from Registered\_Customer.txt

If(approved)

Call approvedCustomer()

Return true

Else

Display (“Account approval pending”)

Return false

Else

Display (“Invalid credentials, enter again”)

Return false

Else

Display (“Invalid UserID”)

Return false

End

approvedCustomer(userid) function

Begin

Declare option

Display (“Welcome to Malaysia Bank \n 1. Check Loan detail as per filled at the time of registration with Loan Instalment Date and Loan ID generated by Admin \n 2. Can pay Loan Instalment \n 3. Can view the own transactions \n 4. Can check the status of Loan \n 5. Exit”)

Display “Kindly enter your choice: “

Read option

If(option==1)

Read and display Loan\_Registered\_Customer.txt file for logged in customer

Call approvedCustomer(userid)

If(option==2)

Read and display Loan\_Registered\_Customer.txt file for logged in customer

Declare and read amount

Declare and read date

Store values in customer\_transactions.txt against logged in customer

If(date==installmentDate[read from file earlier])

Write ‘Installment Paid’ in Customer\_Transactions.txt file entry.

Else

Write ‘Installment Overdue’ in Customer\_Transactions.txt file entry.

Call approvedCustomer(userid)

If(option==3)

Read and display Customer\_Transactions.txt file for logged in customer

Call approvedCustomer(userid)

If(option==4)

Read and display Customer\_Transactions.txt file for logged in customer for loan status

Call approvedCustomer(userid)

If(option==5)

Exit program

End

NewCustomer() function

Begin

Declare option

Display (“Welcome to Malaysia Bank \n 1. Check loan detail \n 2. Loan calculator for loan amount eligibility \n 3. Register with Malaysian Bank \n 4. Back to Customer Menu \n 5. Exit”)

Display “Kindly enter your choice: “

Read option

If(option==1)

Declare option1

Display (“1. Education Loan (EL) \n 2. Car Loan (CL) \n 3. Home Loan (HL) \n 4. Personal Loan (PL) \n 5. Back to New Customer Menu”)

Display “Kindly enter your choice: “

Read option1

If(option1==1)

Read and display Education\_Loan.txt

If(option1==2)

Read and display Car\_Loan.txt

If(option1==3)

Read and display Home\_Loan.txt

If(option1==4)

Read and display Personal\_Loan.txt

If(option1==5)

Call newCustomer()

If(option==2)

Declare and read loan amount

Declare and read loan term

Declare and calculate installment

Declare and calculate interestRate

Display installment and interestRate

Call newCustomer()

If(option==3)

Declare and read userID

Declare and read password

Declare and read emailID

Declare and read DOB

Write values in new\_customer.txt and close file.

Call newCustomer()

If(option==4)

Call newCustomer()

If(option==5)

Exit program

End