Week 03 Lab



EXERCISE Create MyFatherBank program with the following specifications

Part 1

- 1. The program needs to implement full encapsulation.
- 2. The program has to create 2 saving accounts and 2 current accounts with appropriate super class.

Data for saving accounts

a) AC No = 010001 Initial balance = RM2,000.00Yearly Rate = 0.06b) AC No = 010002 $Initial\ balance = RM5.000.00$ Yearly Rate = 0.03

Data for current accounts

a) ACNo = 020001 Initial balance = RM4.000.00Overdraft = RM5,000.00b) ACNo = 020002 Initial balance = RM10,000.00Overdraft = RM8,000.00

- 3. The program needs to have deposit method.
- 4. Display the details of all Accounts in the main program *Use polymorphism - method overriding.*

5. Add third saving account

AC No = 010003 $Initial\ balance = RM1,000.00$ Yearly Rate = awaiting decisionUse polymorphism - method overloading

Part 2

- 1. Deposit RM200 to 010001. Deposit RM100 to 020001.
- 2. Withdraw RM4000 from 010001. Withdraw RM200 from 020001.
- 3. Withdraw RM12000 from 010002.
- 4. Withdraw RM12000 from 020001.
- 5. Withdraw RM12000 from 020002.
- 6. Roll the year to add interest income to 010001, 010002 and 010003.
- 7. Add new account facility called PowerSaving that has feature of saving account but come with emergency over the limit loan facility (EOTL).
- 8. Data for power saving accounts

a) AC No = 030001 $Initial\ balance = RM2,200.00$ Yearly Rate = 0.05

EOTL = RM3000.00

b) ACNo = 030002 Initial balance = RM1,900.00 Yearly Rate = 0.04

EOTL = RM2000.00

- 9. Display the detail of PowerSaving accounts.
- 10. Deposit RM100 to 030002.
- 11. Withdraw RM5000 from 030001.
- 12. Withdraw RM5000 from 030002.
- 13. Draw full class diagram for the above solutions.