

Programming I 2021(811104P)

Homework 2:

Google translation

Question : Design your ATM using a rough level algorithm in favour of control structures (sequencing, selection and repetition).

1. **PRINT** "Welcome Inserts card, thankyou "
2. **READ** if card is inserted
3. **WHILE** the card is not inserted
4. **READ** card
5. **ENDWHILE**
6. **PRINT** "Enter pin number"
7. **READ** pin Number
8. **WHILE** the pin Number is not correct
9. **READ** pin Number
10. **END WHILE**

11. **PRINT** Choice menu
12. **WHILE** Choice != 0
 - a. **PRINT** "0. Exit
 - b. **PRINT** "1.Withdraw"
 - c. **PRINT** "2. Balance"
 - d. **PRINT** "3. Transactions"
 - e. **PRINT** "4. mobilePhoneTopUp "
 - f. **PRINT** "5. Receipt"
13. **ENDWHILE**

14. **PRINT** "Withdraw " //Menu Options
15. **WHILE** choice option is not correct
 - a. **PRINT** 1. Amount
 - b. **PRINT** 2. Other amount
 - c. **PRINT** 3. To start // back to the mainMenu
 - d. **READ** Withdraw option

 - e. **WHILE** the user selection is valid
 - i. **IF** the balance is greater than amount
 - f. **PRINT** " Information display options"
 - g. **READ** Information display option
16. **WHILE** Information display option has not been chosen
 - a. **PRINT** "1. On receipt"
 - b. **PRINT** "2. On screen"
 - c. **PRINT** "3. No thanks"
 - d. **READ** user option
17. **ENDWHILE**
18. **IF** Information display option is 1 then execute onReceipFunction()
19. **IF** Information display option is 2 then execute onScreenFunction()
20. **IF** Information display option is 3 then execute noThanksFunction()
// user selects balance option
21. **IF** the user select **balance**

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22. WHILE(not quit)
    a. PRINT " account balance"
23. ENDWHILE
24. IF the user select Transactions
    a. IF on receipt hen execute onReceipFunction()
    b. IF on screen then execute onScreenFunction()
    c. IF(on receipt selected the PRINT receipt

25. IF the user select mobilePhoneTopUp
    a. PRINT "1. Saunalahti"
    b. PRINT "2. dna"
    c. PRINT "3. Go go mobile"
    d. IF(Saunalahti)
    e. PRINT "ask for the phone number in whole numbers"
        i. IF(number is correct)
            1. PRINT "Select the amount"
            2. IF(the balance is greater than amount requested )
                a. The ATM confirm the transaction
            3. END IF
        ii. END IF
26. IF the user select receipt
    a. PRINT receipt
27. ENDWHILE

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