

Homework 2:

Google translation

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

1. **START**
2. **PRINT** "Welcome Inserts card, thank you "
3. **READ IF** card is inserted
4. **WHILE** the card is inserted
5. **READ** card
6. **PRINT** "Enter pin number"
7. **READ** pin Number
8. **WHILE** the pin Number is not correct
9. **READ** pin Number
10. **PRINT** Menu Options
 1. **PRINT** (1.Withdraw)
 2. **PRINT** (2.Balance)
 3. **PRINT** (3.Mobile top up)
 4. **PRINT** (4.Transactions)
11. **IF** option in main menu is **Withdraw**
12. **IF** the balance is greater than amount
 1. **PRINT Withdraw** options
 2. **PRINT** 1. Amount(s) 20 - 240 euros
 3. **PRINT** 2. Other amount
 4. **PRINT** 3. Go back → to main menu
 5. **READ** Withdraw option
13. **WHILE** the user selection is valid
14. **PRINT** information display option
15. **IF** on screen
 1. **PRINT** information on screen
 2. **PRINT** take card
 3. **DISPENSE** the cash
16. **IF** on receipt
 1. **PRINT** information on receipt
 2. **PRINT** take card
 3. **DISPENSE** the cash
17. **ELSE**
 1. **PRINT** take card
 2. **DISPENSE** the cash
18. **IF** option in main menu is **Balance**

1. **PRINT** account Balance
2. **PRINT** prompt user to quit
3. **PRINT** main menu

19.**IF** option in main menu is **Mobile top up**

1. **PRINT** (1. Saunalahti)
2. **PRINT** (2. Dna)
3. **PRINT** (3. Go Mobile)
4. **PRINT** Go back → to main menu

20.**WHILE** option is mobile top up

1. READ and check phone number
 1. IF phone number is correct
 2. READ amount
 3. READ user confirmation
 4. PRINT notification to user
 5. ELSE IF cancel - Go back → to main menu
2. Go back → to main menu

21.**IF** option in main menu is **Transactions**

1. PRINT option (1. screen)
2. PRINT option (2. receipt)

22. **STOP**