

## Pseudo Code, LABO 1B

Gwenaël, Noé, Ophélie

### Inputs

- username = family name of the user
- accountNumber = account number of the user
- accountBalance (1000) = account balance in CHF
- exchangeRate (1.024) = 1 CHF to Euro exchange rate
- transactionFees (5) = money in CHF collected by the bank for a transaction
- withdrawalAmount = the money withdrawal by the user in Euro
  
- ticketColLeftWidth (18) = the label column width in character of the ticket
- ticketColRightWidth (9) = the result column width in character of the ticket
- ticketCorner ('+') = the character placed in each corner of the ticket
- ticketColSeparator (':') = the character placed to separate the two columns
- ticketColSeparatorWidth (1) = the number of character placed to separate the two columns
- ticketBorderVertical ('|') = the character used for the right and left borders
- ticketBorderHorizontal ('-') = the character used for the top and bottom borders
- ticketNumberPrecision (2) = the number of decimal used for the number precision except for the exchange rate
- ticketExchangeRatePrecision (3) = the number of decimal used for the exchange rate precision

### Output

The formatted ticket with the following information:

- username
- account number
- withdrawal amount
- exchange rate
- converted withdrawal amount
- transaction fees
- final account balance

## Algorithm

ask accountNumber

ask username

display accountBalance

display exchangeRate

display transactionFees

ask withdrawalAmount

calculate convertedWithdrawalAmount = withdrawalAmount /  
exchangeRate

calculate finalAccountBalance = accountBalance -  
convertedWithdrawalAmount - transactionFees

calculate ticketWidth = ticketColLeftWidth + ticketColRightWidth +  
ticketColSeparatorWidth

display as Ticket model

## Ticket model

```
+-----+
|
|  TOTO
|  1256845
|
|  Somme Euro      :  125.00 |
|  1 CHF en Euro   :   1.024 |
|
|  Somme CHF       :  122.07 |
|  Frais           :    5.00 |
|
|  Solde Compte    :  872.93 |
|
+-----+
```