Bank Account

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# Define the Project

This program asks user to input beginning balance and then enter as many debits as they like. The debits will be deducted from the beginning balance.

# Visualize the Interface

Bank Account

Please enter your beginning balance of a bank account:\_\_\_\_

Please enter the debit or enter “q” to quit\_\_\_\_

Repeat until user wants to quit

At end:

Balance:\_\_\_\_

# Flowchart or Pseudo Code

set “keep going” switch to true

set total to 0

Ask user to enter the beginning balance

Loop until switch is false

Check If input is numeric

Convert to float

set “keep going” to false

Else

Issue error message

Ask user to input the beginning balance again until they input numeric

set “keep going” to true

Loop until switch is false

Ask for another input (debit) or enter “q” to quit

If user entered “q”, set “keep going” switch to false

elif check input numeric or not

convert to float

compute the total debit

else

print error message

Compute the balance = beginning balance - total debit

Output balance

# Determine the variables needed and add to the Data Dictionary

| **Name of Variable** | **Datatype** | **Location in Program** | **Description** |
| --- | --- | --- | --- |
| string\_input | string | main | user input |
| keep\_going | Boolean | main | switch to control loop |
| beginning\_balance | float | main | converted input |
| total | float | main | total debit value entered |
| balance | float | main | beginning balance - total |
|  |  |  |  |
|  |  |  |  |

# Test Plan:

| **Inputs** | **Expected Output** | **Actual Output** |
| --- | --- | --- |
| beginning balance: 100  debit : 10, 5, 20 | 65 | 65 |
| beginning balance: 550  debit : 76, 99, 2 | 373 | 373 |
| beginning balance: 10  debit : 2, x, 5 | 3  error message | 3  error message |
| beginning balance: x, 500  debit : 200, 98, 50 | 152  error message | 152  error message |