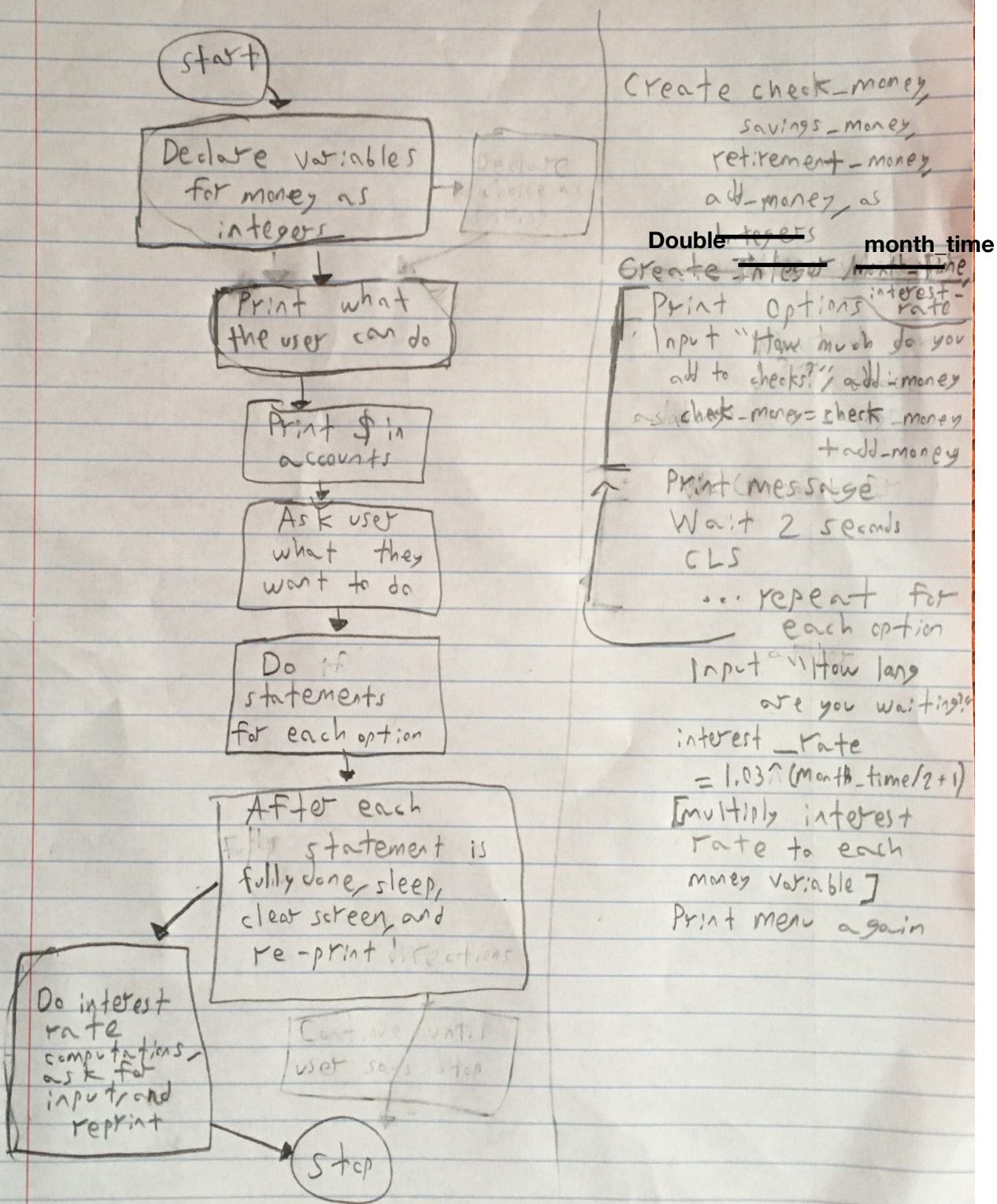


Here is my Pseudocode + Flowchart:

9-30-22

# Flowchart + Pseudocode Bank



Here is my code:

(Note, it is around 94 lines, so each screenshot shows a different section of code. They are in numerical order. Also, the CLS and SLEEP functions were not working, so each screenshot also shows a different section of output.)

1st:

```
1 'This program imitates a bank'
2 DIM check_money, savings_money, retirement_money, add_money AS DOUBLE
3 DIM month_time, interest_rate AS DOUBLE
4 DIM ready AS STRING 'Since CLS and SLEEP don't work, I am using this variable as a substitute(line 45)
5 'Creates 3 variables for storing money, and one for user input'
6
7 check_money = 0
8 savings_money = 0
9 retirement_money = 0
10 'Assigns money variables to 0'
11
12 'The following prints what the user can do'
13 PRINT
14 PRINT TAB(43); "MENU"
15 PRINT "-----"
16 PRINT TAB(28); "1. ADD MONEY TO CHECKING ACCOUNT"
17 PRINT TAB(36); "CURRENT BALANCE: $" ; check_money
18 PRINT 'Note: I do not know why, but there is a glitch if I do "PRINT USING ##.###"'
19 PRINT
20 PRINT TAB(28); "2. ADD MONEY TO SAVINGS ACCOUNT"
21 PRINT TAB(36); "CURRENT BALANCE: $" ; savings_money
22 PRINT
23 PRINT
24 PRINT TAB(28); "3. ADD MONEY TO RETIREMENT ACCOUNT"
25 PRINT TAB(36); "CURRENT BALANCE: $" ; retirement_money
26 PRINT "-----"
27 'Prints the menu with blank lines for design'
28
29 INPUT "How much money would you like to add into your checking account" ; add_money
30 check_money = add_money + check_money
31 PRINT
32
33 INPUT "How much money would you like to add into your savings account" ; add_money
34 savings_money = add_money + savings_money
35 PRINT
36
37 INPUT "How much money would you like to add into your retirement account" ; add_money
38 retirement_money = add_money + retirement_money
39 PRINT
40
41 'These statements ask how much money the user would like to put into each of their accounts'
42 SLEEP 2000000000000000 'I don't know why but these 2 commands also don't work, but I'll still put them
43 CLS
44
```

```
QBasic (qb.js)
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MENU
-----
1. ADD MONEY TO CHECKING ACCOUNT
CURRENT BALANCE: $0

2. ADD MONEY TO SAVINGS ACCOUNT
CURRENT BALANCE: $0

3. ADD MONEY TO RETIREMENT ACCOUNT
CURRENT BALANCE: $0
-----
How much money would you like to add into your checking account? 45000
How much money would you like to add into your savings account? 6500
How much money would you like to add into your retirement account? 20300

Please press enter when you are ready for the screen to refresh. █
```

(The user can also withdraw money by typing a negative amount in the input statements.)

## 2nd:

```
44 PRINT
45 INPUT "Please press enter when you are ready for the screen to refresh.", ready
46 'I am just using this command because the input is the only that that makes the output stop for a second
47
48
49 'Reprints menu'
50 PRINT
51 PRINT
52 PRINT TAB(43); "MENU"
53 PRINT "-----"
54 PRINT TAB(28); "1. ADD MONEY TO CHECKING ACCOUNT"
55 PRINT TAB(36); "CURRENT BALANCE: $" ; check_money
56 PRINT 'Note: I do not know why, but there is a glitch if I do "PRINT USING ##.###"'
57 PRINT
58 PRINT TAB(28); "2. ADD MONEY TO SAVINGS ACCOUNT"
59 PRINT TAB(36); "CURRENT BALANCE: $" ; savings_money
60 PRINT
61 PRINT
62 PRINT TAB(28); "3. ADD MONEY TO RETIREMENT ACCOUNT"
63 PRINT TAB(36); "CURRENT BALANCE: $" ; retirement_money
64 PRINT "-----"
65
66 'The following does interest'
67 PRINT
68 INPUT "How long are you waiting before you check your money again (In Months)?", month_time
69 'Does calculations:
70 interest_rate = 1.03^(month_time/2+1) 'Gets an interest rate'
71
72 check_money = check_money * interest_rate
73 savings_money = savings_money * interest_rate
74 retirement_money = retirement_money * interest_rate
75
76 INPUT "Please press enter when you are ready for the screen to refresh.", ready
77 'CLS and SLEEP substitute'
78
79 PRINT
80 PRINT
81 PRINT TAB(43); "MENU"
82 PRINT "-----"
83 PRINT TAB(28); "1. ADD MONEY TO CHECKING ACCOUNT"
84 PRINT TAB(36); "CURRENT BALANCE: $" ; check_money
85 PRINT 'Note: I do not know why, but there is a glitch if I do "PRINT USING ##.###"'
86 PRINT
87 PRINT TAB(28); "2. ADD MONEY TO SAVINGS ACCOUNT"
```

```
QBasic (qb.js)
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MENU
-----
1. ADD MONEY TO CHECKING ACCOUNT
CURRENT BALANCE: $0

2. ADD MONEY TO SAVINGS ACCOUNT
CURRENT BALANCE: $0

3. ADD MONEY TO RETIREMENT ACCOUNT
CURRENT BALANCE: $0
-----
How much money would you like to add into your checking account? 45000
How much money would you like to add into your savings account? 6500
How much money would you like to add into your retirement account? 20300

Please press enter when you are ready for the screen to refresh.

MENU
-----
1. ADD MONEY TO CHECKING ACCOUNT
CURRENT BALANCE: $45000

2. ADD MONEY TO SAVINGS ACCOUNT
CURRENT BALANCE: $6500

3. ADD MONEY TO RETIREMENT ACCOUNT
CURRENT BALANCE: $20300
-----
How long are you waiting before you check your money again (In Months)? 36
Please press enter when you are ready for the screen to refresh. █
```

## 3rd:

```
70 interest_rate = 1.03^(month_time/2+1) 'Gets an interest rate'
71
72 check_money = check_money * interest_rate
73 savings_money = savings_money * interest_rate
74 retirement_money = retirement_money * interest_rate
75
76 INPUT "Please press enter when you are ready for the screen to refresh.", ready
77 'CLS and SLEEP substitute'
78
79 PRINT
80 PRINT
81 PRINT TAB(43); "MENU"
82 PRINT "-----"
83 PRINT TAB(28); "1. ADD MONEY TO CHECKING ACCOUNT"
84 PRINT TAB(36); "CURRENT BALANCE: $" ; check_money
85 PRINT 'Note: I do not know why, but there is a glitch if I do "PRINT USING ##.###"'
86 PRINT
87 PRINT TAB(28); "2. ADD MONEY TO SAVINGS ACCOUNT"
88 PRINT TAB(36); "CURRENT BALANCE: $" ; savings_money
89 PRINT
90 PRINT
91 PRINT TAB(28); "3. ADD MONEY TO RETIREMENT ACCOUNT"
92 PRINT TAB(36); "CURRENT BALANCE: $" ; retirement_money
93 PRINT "-----"
94 PRINT "Thank you for visiting this bank!"
```

```
1. ADD MONEY TO CHECKING ACCOUNT
CURRENT BALANCE: $0

2. ADD MONEY TO SAVINGS ACCOUNT
CURRENT BALANCE: $0

3. ADD MONEY TO RETIREMENT ACCOUNT
CURRENT BALANCE: $0
-----
How much money would you like to add into your checking account? 45000
How much money would you like to add into your savings account? 6500
How much money would you like to add into your retirement account? 20300

Please press enter when you are ready for the screen to refresh.

MENU
-----
1. ADD MONEY TO CHECKING ACCOUNT
CURRENT BALANCE: $45000

2. ADD MONEY TO SAVINGS ACCOUNT
CURRENT BALANCE: $6500

3. ADD MONEY TO RETIREMENT ACCOUNT
CURRENT BALANCE: $20300
-----
How long are you waiting before you check your money again (In Months)? 36
Please press enter when you are ready for the screen to refresh.

MENU
-----
1. ADD MONEY TO CHECKING ACCOUNT
CURRENT BALANCE: $78907.77238846957

2. ADD MONEY TO SAVINGS ACCOUNT
CURRENT BALANCE: $11397.78934500116

3. ADD MONEY TO RETIREMENT ACCOUNT
CURRENT BALANCE: $35596.172877465164
-----
Thank you for visiting this bank!
> █
```