Here is my Pseudocode + Flowchart:

Flow that + Pseudo code Rock  Start  Create cheek_meney sourings_maney retirement_morey and_meney as pouble to month the Greate integer  Print what the user can do  As k user what they want they want they want they clas  To repeat to each option  Do if statements for each option  After each fully done, sleep, clase streep, and retrint  Create cheek_meney retirementy retirementy month the Greate integer  Month they all money and the deck!? all immeney and the deck!? all immene		9-30-22
Create check_money savings_money retirement_money ad_money as integers  Print what  Print Options month the Compact money all the user can do  Ask user Wait 2 seconds CLS  Wait 2 seconds CLS  Wait 2 seconds  CLS  Wait 2 seconds  The each option  Input "Item lang ore you waitight for each option  Input "Item lang ore you waitight for each option  Input "Item lang ore you waitight  The tatement is  fally done sleep, clear screen and re-print landward  The print landward  Input road  The print landward  Input road  The print landward  The print landwa		
Declare variables  For money as  Interest  Print what  The user can do  Ask user  What They  Want to do  Input "Itan much do you  all to deck!" all immore  Ask user  What They  Want to do  Input "Itan much do you  all to deck!" all immore  Ask user  What they  Want to do  Input "Itan large  The each option  Input "Itan large  The each  Input lift interest  In	Flowchart + Pseudocode &	2x
Declare variables  For money as  Interest  Print what  The user can do  Ask user  What They  Want to do  Input "Itan much do you  all to deck!" all immore  Ask user  What They  Want to do  Input "Itan much do you  all to deck!" all immore  Ask user  What they  Want to do  Input "Itan large  The each option  Input "Itan large  The each  Input lift interest  In		
Declare variables  for money as  integers  Double types  Print what  Print what  Print what  The user can do  As k user  What they  want to da  Do  Input "How much do you  all decks" all imposes  For each option  Input "How lang  statements  for each option  Input "How lang  are you waitishe  interest trate  = 1.037 (month time/2+1)  Invitibly interest  They want to each  Input "Input "How lang  ore you waitishe  interest trate  = 1.037 (month time/2+1)  Invitibly interest  Tate to each  Tully dene sleep,  clear screen and  re-print incertain  Do interest  They want to a gain  Print menu a gain  Do interest  rate  compositations  user says the  input sould  reprint  Do interest  rate  compositations  user says the  input sould  reprint	(start)	
Declare variables  for money as  integers  Double texes month tin  Greate in each in the user can do  Print up at "they must be you all the user can do  As k user  Wait 2 seconds  CLS  What they  want to do  Input "How must sheek money accounts  Do in  Input "How lang  what they  want to do  Input "How lang  Input "How lang  are you waitight  for each option  Input "Willy interest  The each  Invitibly interest  The each  Invitibly interest  The each  Invitibly interest  The each  Invitible interest  The each  T		
for money as  integers  Double treets  month time  Print Options rest-  the user con do  Print of in a counts  As k user  what they  want to do  Input "I thew lang  statements  for each option  Input "I thew lang  statements  for each option  After each  fully doney sleep,  clear screen and  Print menu a gain  Oo interest  rate  compositions  loser safe to  compositions  and money veriable J  Print menu a gain  Print menu a gain  The trade  compositions  loser safe to  loser safe t	The large we will be	
Double trees month time  Print what  Print options rest of the user can do  Ask user  Wait 2 seconds  CLS  what they want to do  Do if  statements  for each option  After each  fully done sleep, clear screen and  Print menson ge  Noticest  Trate  1.03 Menth time/2+)  Input which interest  Fill statement is  for each option  Oo interest  rate  Computations  Oo interest  rate  Input which  Inpu		
Print what  Print options interest  The user can do  As k uset  Wait 2 seconds  What they  what they  what they  what they  Input "How much do you  all to heeks?" additioner  accounts  Print (message  Wait 2 seconds  CLS  what they  what they  cls  Input "How lang  statements  for each option  Input "How lang  are you waitingle  Investingle  Investingle  After each  For each  Investingle  Investingle  Investingle  Investingle  Investingle  Investingle  Investingle  Investingle  Clear screen and  re-print Investings  Input read  reprint  Investingle  Investin		
Print what the user can do  Print in  Ask user  Wait 2 seconds  Unput "How much do you  all to check?" additioners  Ask user  Wait 2 seconds  CLS  What they  What they  Statements  For each option  Input "Itou lang  ore you weitings  for each option  After each  [multill) interest  Tate to each  fully user sleep,  clear screen and  re-print I rectuars  Do interest  rate  Input trans  Input trans  The print is each  Input trans  The print is each  Input trans  The print is each  Input trans  Inp		Create month time
Ask user  Wait 2 seconds  Wait 2 seconds  Under they  want to do  "" repear for  each option  Input "Itoli lang  statements  for each option  After each  [Invitibly interest  Tate to each  fully done sleep,  clear screen and  reprint  Do interest  Input of menu a goin  Print menu a goin  The print of me	Print what	Print notions interest-
Ask user  Wait 2 seconds  Wait 2 seconds  Under they  want to do  "" repear for  each option  Input "Itoli lang  statements  for each option  After each  [Invitibly interest  Tate to each  fully done sleep,  clear screen and  reprint  Do interest  Input of menu a goin  Print menu a goin  The print of me	the user can do	I put "Have much do you
Print 9 in accounts  Ask user  Wait 2 seconds  What they  want to do  Input "Ithou large  statements  for each option  After each  folly done sleep,  clear screen and  re-print I rectures  Do interest  The print menu again		and to checks? " and immoney
As k user  Wait 2 seconds  What they  What they  What they  What 2 seconds  CLS  What 2 seconds  CLS  Input "Itow lang  Statements  For each option  Affer each  [multiple interest  Fully uner sleep,  Clear screen, and  Print menu a gain  The print of the contract	Prod to	
Ask user  Wait 2 seconds  What they  what they  want to do  repear for  each option  Input "Itom lang  statements  for each option  After each  fully one sleep,  clear screen and  re-print leadings  local inferest  rate  computations  local inferest  rate  computations  local inferest  value  local inferest  rate  computations  local inferest  local inferest  value  local inferest  v		
what they want to do  repeat for each option  Do if  Input "How large ore you waiting!"  for each option  After each  Fultilly interest  Tate to each  fully une sleep, clear screen and re-print literatures  Input new again  The print menu again  The print literatures  Input new again  The print literatures  Input new again  The print literatures  The print literature  The print litera		7 Print message
wort to do  repeart for each option  Input 11 thou large statements for each option  After each  [multiply interest  filly dener sleep, clear screen and re-print literatures  Locations  Location	Askuset	
Do if  Input vittow lang  statements  for each option  After each  [multiply interest  rate to each  fully done, sleep,  clear screen and  re-print directions  Do interest  rate  computations  user says step  input vittow  peach option  interest  rate  = 1.03 \( \text{Month time/2+1} \)  [multiply interest  rate to each  many voriable ]  Print menu again  The print directions  or the print directions  reprint  rate  computations  user says step  input rand  reprint	what they	
Do interest  Computations  Do interest  Statements  For each option  After each  [multiply interest  Tate to each  folly done sleep,  clear screen and  re-print interest  rate  computations  as a factorial  as a factorial  reprint  Control  Locations  L	0001 4000	··· repeat for
statements  for each option  interest _rate  = 1.03^ (Month_time/2+1)  After each  [mvitiply interest  rate to each  fully done sleep,  clear screen and  re-print decetions  pointerest  rate  computations  input rand  reprint  r	D- in	
for each option  interest_rate  = 1.03 \( \text{Month_time/2+1} \)  After each  [multiply interest  state to each  fully done sleep,  clear screen and  re-print directions  osk follows  voriable ]  Print menu again  re-print directions  user says stan  inputrond  reprint		
= 1.03 \( (month_time/2+1)\)  After each [mvHIP]y interest    statement is rate to each   fully done, sleep,   money variable ]   clear screen and   Print menu a gain   re-print decentions     computations   vset says stop     input rand   reprint     reprint   vset says stop     input rand   reprint     reprint   vset says stop		
After each  Statement is  Fate to each  Fully done, sleep,  Clear screen and  Print menu again  The print directions  To the series  To the each  The print directions  To the print directions  To the series  To the print directions  To the print direction directions  To the print direction direction directions  To the print direction		
Clear screen and Print menu again  To interest computations   User says stop    Input and reprint   Very say	TAFter each	
Do interest rate computations   User sales step   Input and reprint	statement is	rate to each
Do interest  rate  computations  ask for  inputrand  reprint	tully done, sleep,	money vor:able 7
Do interest  rate  rate  computations  ost for  inputrand  reprint		· Print menu again
computations user sals step  inputrand reprint	re-print directions	
computations user sals step  inputrand reprint	100 interest	
reprint	Tate Contino/until	
reprint	instituted wet sofs stop	
	reprint	

## 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'
                                                                                                                                           QBasic (qb.js)
Copyright (c) 2010 Steve Hanov
2 DIM check_money, savings_money, retirement_money, add_money AS DOUBLE 3 DIM month_time, interest_rate AS DOUBLE
    DIM ready AS STRING 'Since CLS and SLEEP don't work, I am using this variable as a substitute(line 45)
                                                                                                                                                                        1. ADD MONEY TO CHECKING ACCOUNT
CURRENT BALANCE: $0
    'Creates 3 variables for storing money, and one for user input'
 7 check_money = 0
 8 savings_money = 0
                                                                                                                                                                        2. ADD MONEY TO SAVINGS ACCOUNT CURRENT BALANCE: $0
   retirement_money = 0
    'Assigns money variables to 0'
                                                                                                                                                                        3. ADD MONEY TO RETIREMENT ACCOUNT CURRENT BALANCE: $0
    'The following prints what the user can do'
13
    PRINT
                                                                                                                                           How much money would you like to add into your checking account? 45000
    PRINT TAB(43); "MENU"
    PRINT "-----
                                                                                                                                           How much money would you like to add into your savings account? 6500
    PRINT TAB(28); "1. ADD MONEY TO CHECKING ACCOUNT"
    PRINT TAB(36); "CURRENT BALANCE: $" ; check_money
PRINT 'Note: I do not know why, but there is a glitch if I do "PRINT USING ##.##"
17
                                                                                                                                           How much money would you like to add into your retirement account? 20300
18
                                                                                                                                           Please press enter when you are ready for the screen to refresh.
    PRINT TAB(28); "2. ADD MONEY TO SAVINGS ACCOUNT"
PRINT TAB(36); "CURRENT BALANCE: $"; savings_money
20
21
23 PRINT
24
    PRINT TAB(28); "3. ADD MONEY TO RETIREMENT ACCOUNT"
25
    PRINT TAB(36); "CURRENT BALANCE: $"; retirement_money
26
    PRINT "-----
    '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
33 INPUT "How much money would you like to add into your savings account" ; add_money
    savings_money = add_money + savings_money
35 PRINT
    INPUT "How much money would you like to add into your retirement account" ; add_money
38
    retirement_money = add_money + retirement_money
39
    PRINT
41 'These statements ask how much money the user would like to put into each of their accounts'
42 SLEEP 20000000000000 'I don't know why but these 2 commands also don't work, but I'll still put them
43 CLS
44
```

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

## 2nd:

```
QBasic (qb.js)
Copyright (c) 2010 Steve Hanov
                                                                                                                                                                                                                                                         Qΰ
45 PRINT
46 INPUT "Please press enter when you are ready for the screen to refresh." , ready
                                                                                                                                                                                               MENU
47
    ^{\prime}\text{I} am just using this command because the input is the only that that makes the output stop for a second
                                                                                                                                                                              1. ADD MONEY TO CHECKING ACCOUNT
CURRENT BALANCE: $0
49
50
    PRINT
51
    PRINT
                                                                                                                                                                              2. ADD MONEY TO SAVINGS ACCOUNT CURRENT BALANCE: $0
    PRINT TAB(43); "MENU"
53 PRINT "
    PRINT TAB(28); "1. ADD MONEY TO CHECKING ACCOUNT"
                                                                                                                                                                              3. ADD MONEY TO RETIREMENT ACCOUNT CURRENT BALANCE: $0
    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 ##.##" \ensuremath{^{"}}
                                                                                                                                                How much money would you like to add into your checking account? 45000
    PRINT
    PRINT TAB(28); "2. ADD MONEY TO SAVINGS ACCOUNT"
                                                                                                                                                How much money would you like to add into your savings account? 6500
59
    PRINT TAB(36); "CURRENT BALANCE: $"; savings_money
60
    PRINT
                                                                                                                                                How much money would you like to add into your retirement account? 20300
    PRINT TAB(28); "3. ADD MONEY TO RETIREMENT ACCOUNT"
PRINT TAB(36); "CURRENT BALANCE: $"; retirement_money
62
                                                                                                                                                Please press enter when you are ready for the screen to refresh.
63
65
66
     'The following does interest'
                                                                                                                                                                              1. ADD MONEY TO CHECKING ACCOUNT
CURRENT BALANCE: $45000
68
    INPUT "How long are you waiting before you check your money again (In Months)?" , month_time
69
     'Does calculations:
                                                                                                                                                                              2. ADD MONEY TO SAVINGS ACCOUNT CURRENT BALANCE: $6500
    interest_rate = 1.03^(month_time/2+1)
72    check_money = check_money * interest_rate
73
    savings_money = savings_money * interest_rate
                                                                                                                                                                              3. ADD MONEY TO RETIREMENT ACCOUNT
CURRENT BALANCE: $20300
74 retirement_money = retirement_money * interest_rate
75
76 INPUT "Please press enter when you are ready for the screen to refresh." , ready
                                                                                                                                                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.
77
78
79 PRINT
80
    PRINT
81
    PRINT TAB(43); "MENU"
PRINT "----
    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 ##.##"
    PRINT
87 PRINT TAB(28); "2. ADD MONEY TO SAVINGS ACCOUNT"
```

## 3rd:

```
70 interest_rate = 1.03^(month_time/2+1) 'Gets an interest rate
72 check_money = check_money * interest_rate
73 savings_money = savings_money * interest_rate
74 retirement_money = retirement_money * interest_rate
76
77
    INPUT "Please press enter when you are ready for the screen to refresh." , ready
     'CLS and SLEEP substitute
79
    PRINT
80
     PRINT
     PRINT TAB(43); "MENU"
82
     PRINT
     PRINT TAB(28); "1. ADD MONEY TO CHECKING ACCOUNT"
    PRINT TAB(36); "CURRENT BALANCE: $" ; check_money
PRINT 'Note: I do not know why, but there is a glitch if I do "PRINT USING ##.##"
84
     PRINT
87
    PRINT TAB(28); "2. ADD MONEY TO SAVINGS ACCOUNT
     PRINT TAB(36); "CURRENT BALANCE: $"; savings_money
     PRTNT
    PRINT TAB(28); "3. ADD MONEY TO RETIREMENT ACCOUNT"
PRINT TAB(36); "CURRENT BALANCE: $"; retirement_money
    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 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 SAVINGS 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: $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: $1397.78934500116

3. ADD MONEY TO SAVINGS ACCOUNT
CURRENT BALANCE: $35596.172877465164

Thank you for visiting this bank!
```