Assignment 1.1	
Flowcharting and Application of Pseudo codes	
Course Code: CPE007	**Program:** Computer Engineering
Course Title: Data Structures and Algorithms	**Date Performed: 8/29**
Section: CPE11S1	**Date Submitted: 8/29**
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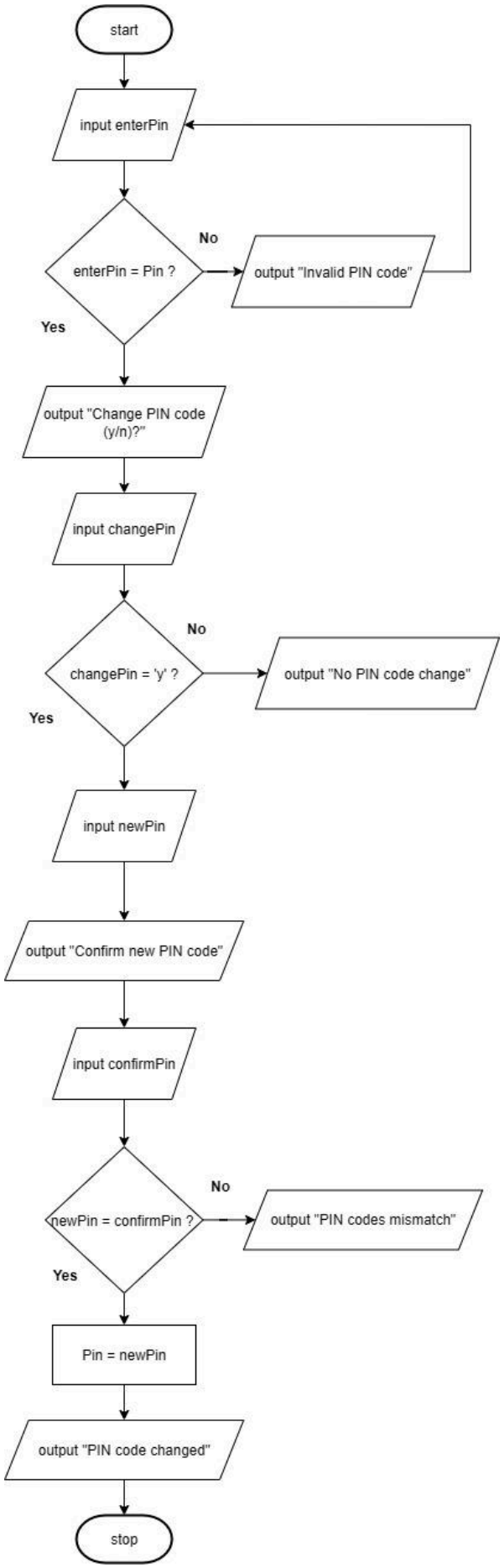
6. Output	
1. Changing Pin Flowchart:	

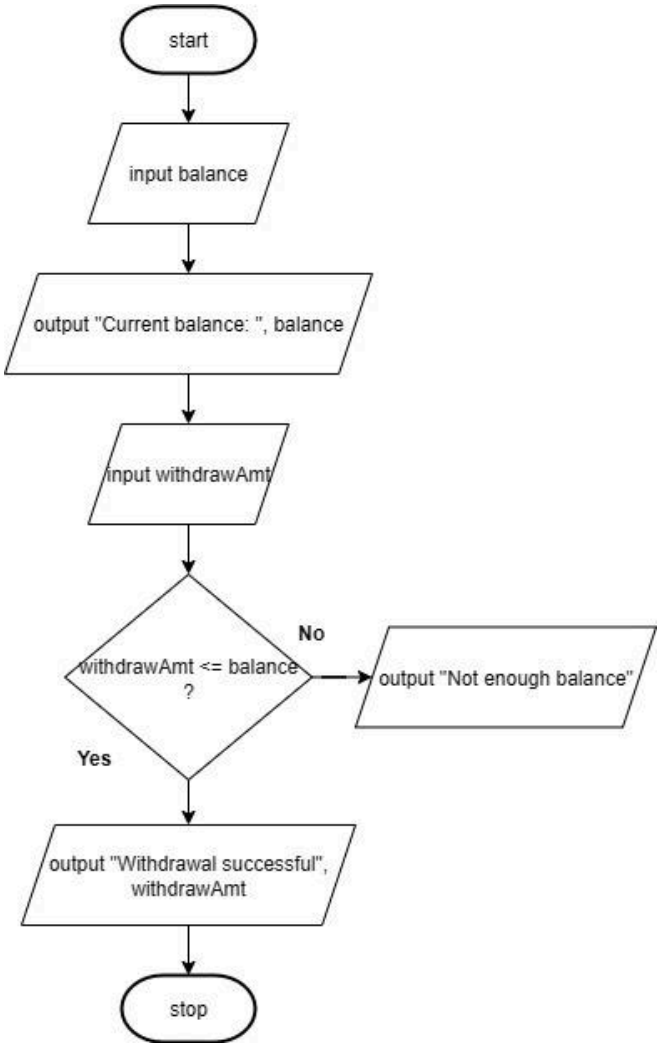

start
input enterPin
enterPin = Pin ?
No
output "Invalid PIN code"
Yes
output "Change PIN code (y/n)?"
input changePin
changePin = 'y' ?
No
output "No PIN code change"
Yes
input newPin
output "Confirm new PIN code"
input confirmPin
newPin = confirmPin ?
No
output "PIN codes mismatch"
Yes
Pin = newPin
output "PIN code changed"
stop

Pseudocode:

```
start
   input enterPin
   if enterPin = Pin
      output "Change PIN code (y/n)?"
      input changePin
      if changePin = 'y'
         output "Enter new PIN code"
         input newPin
         output "Confirm new PIN code"
         input confirmPin
         if newPin = confirmPin
            Pin = newPin
            output "PIN code changed"
         else
            output "PIN codes mismatch"
         ifstop
      else
         output "No PIN code change"
      ifstop
   else
      output "Invalid PIN code"
   ifstop
stop
```

2. Withdraw

Flowchart:

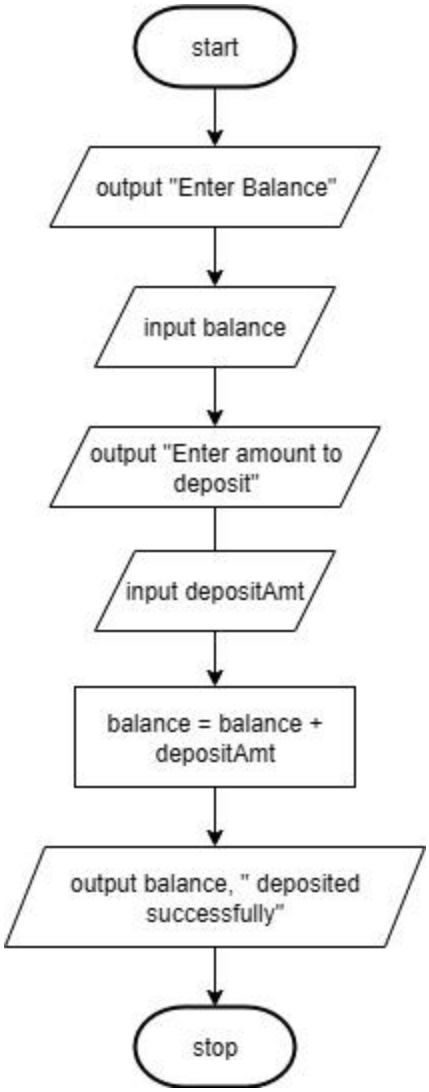


Pseudocode:

```
start
   input balance
   output "Current balance:", balance
   input withdrawAmt
   if withdrawAmt <= balance
      balance = balance - withdrawAmt
      output "Withdrawal successful", withdrawAmt
   else
      output "Not enough balance"
   ifstop
stop
```

3. Deposit

Flowchart

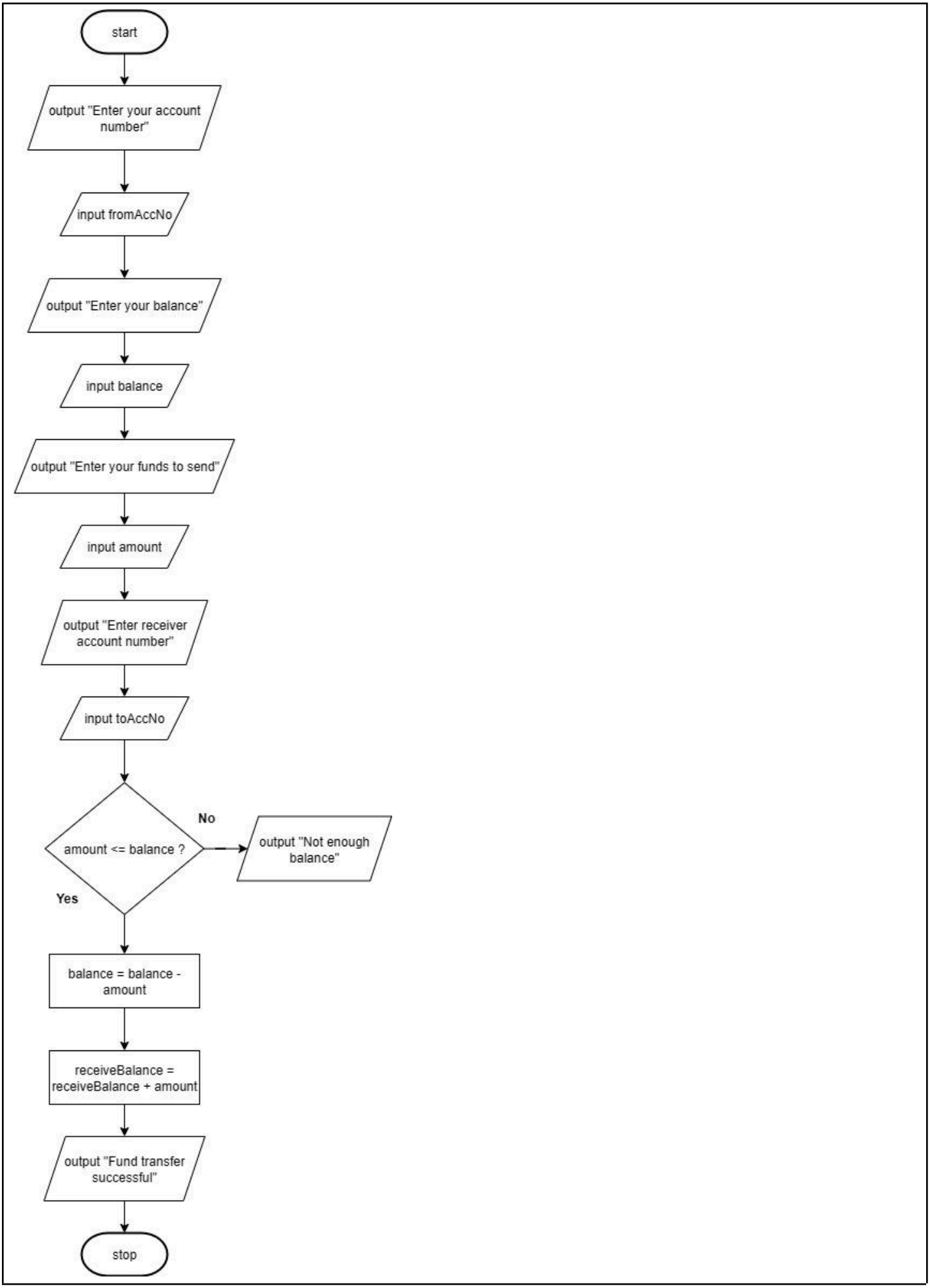


Pseudocode:

```
start
   output "Enter Balance"
   input balance
   output "Enter amount to deposit"
   input  depositAmt
   balance = balance + depositAmt
   output balance, " deposited successfully"
stop
```

4. Fund Transfer

Flowchart


start
output "Enter your account number"
input fromAccNo
output "Enter your balance"
input balance
output "Enter your funds to send"
input amount
output "Enter receiver account number"
input toAccNo
amount <= balance ?
No
output "Not enough balance"
Yes
balance = balance - amount
receiveBalance = receiveBalance + amount
output "Fund transfer successful"
stop

Pseudocode

```
start
   output "Enter your account number"
   input fromAccNo
   output "Enter your balance"
   input balance
   output "Enter your funds to send"
   input amount
   output "Enter receiver account number"
   input toAccNo

   if amount <= balance
      balance = balance - amount
      receiveBalance = receiveBalance + amount
      output "Fund transfer successful"
   else
      output "Not enough balance"
   ifstop
stop
```

7. Supplementary Activity

8. Conclusion

Overall, going back to the earlier lessons shows the amount of progress I have in learning to write programs, pseudocodes, and flowcharts. Through time in learning the C++ language, I find more ways to find errors quickly by reading the patterns between the code and the output console. By going back to this topic, I get the chance to refine my fundamental skills and understanding of programming and how code execution works.

9. Assessment Rubric