

Assignment 1.1

Flowchart and Application of Pseudo Codes

Course Code: CPE010	Program: Computer Engineering
Course Title: Data Structures and Algorithms	Date Performed: 8/12/2025
Section: 11S1	Date Submitted: 8/12/2025
Name(s): Marqui Joshua Cenar	Instructor: Engr. Jimlord M. Quejado

6. Output

Changing pin

Start

 Insert Card

 Enter Old Pin

 Is Old Pin correct?

 If No > Show "Invalid PIN"

 End

 If Yes > Enter New PIN

 Confirm New PIN

 Does New PIN and Confirm PIN match?

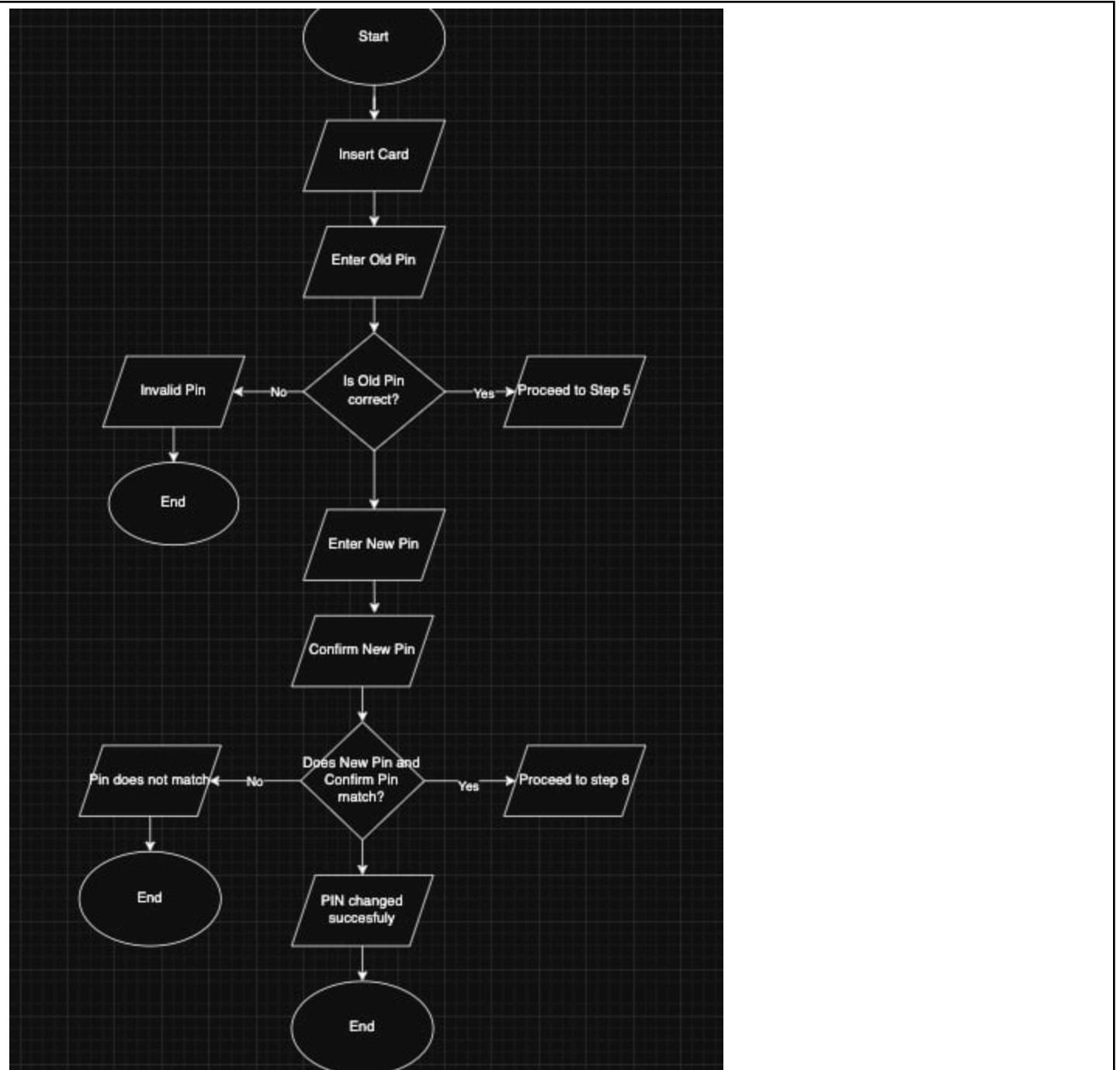
 If No > Display "PIN does not match"

 End

 If Yes > Update PIN

 Display "PIN changed successfully"

 End



Withdraw

Start

Insert Card
Enter PIN

Is PIN correct?

If No > Show "Invalid PIN"
End

If Yes > Choose type of transaction

Select "Withdraw"

Enter amount

Is the amount greater than balance?

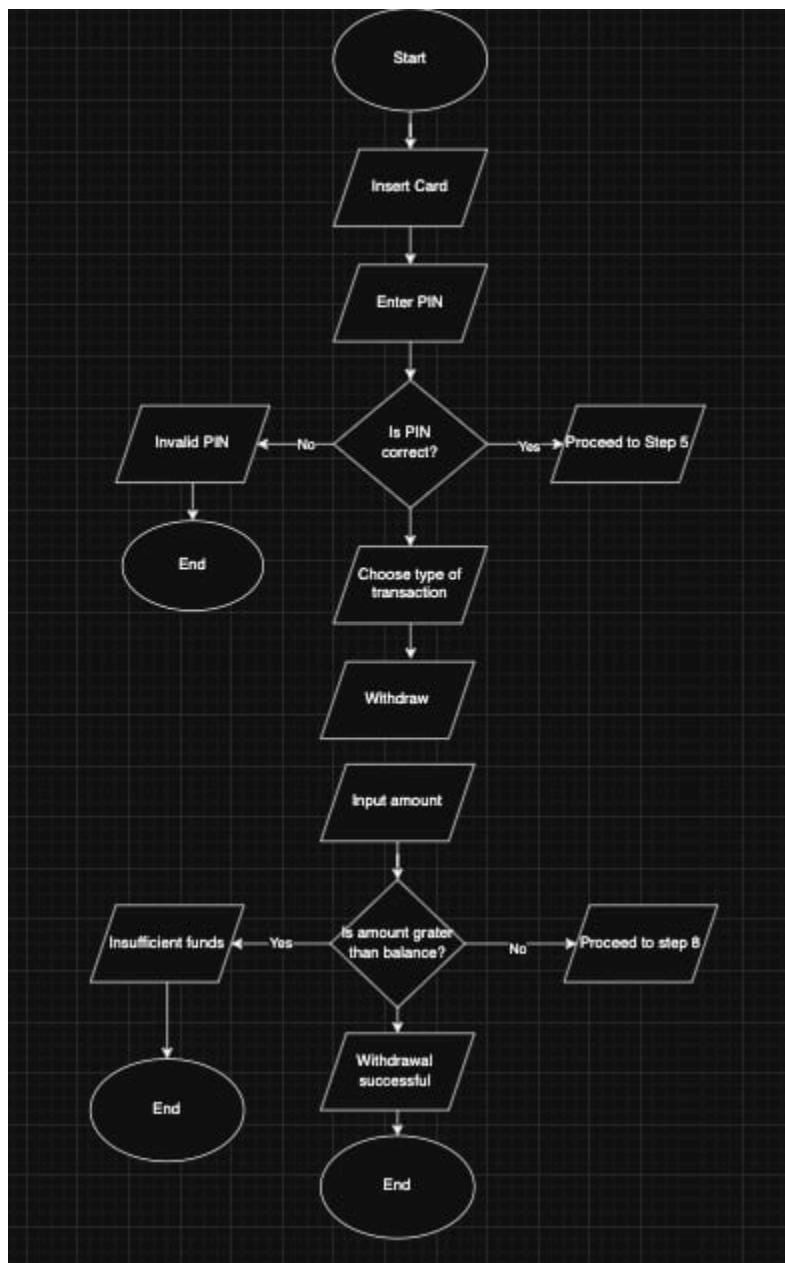
If Yes > Show "Insufficient Balance"

End

If No > Deduct amount from balance

Display "Withdrawal successful"

End



Deposit

Start

Insert Card
Enter PIN

Is PIN correct?

If No > Show "Invalid PIN"

End

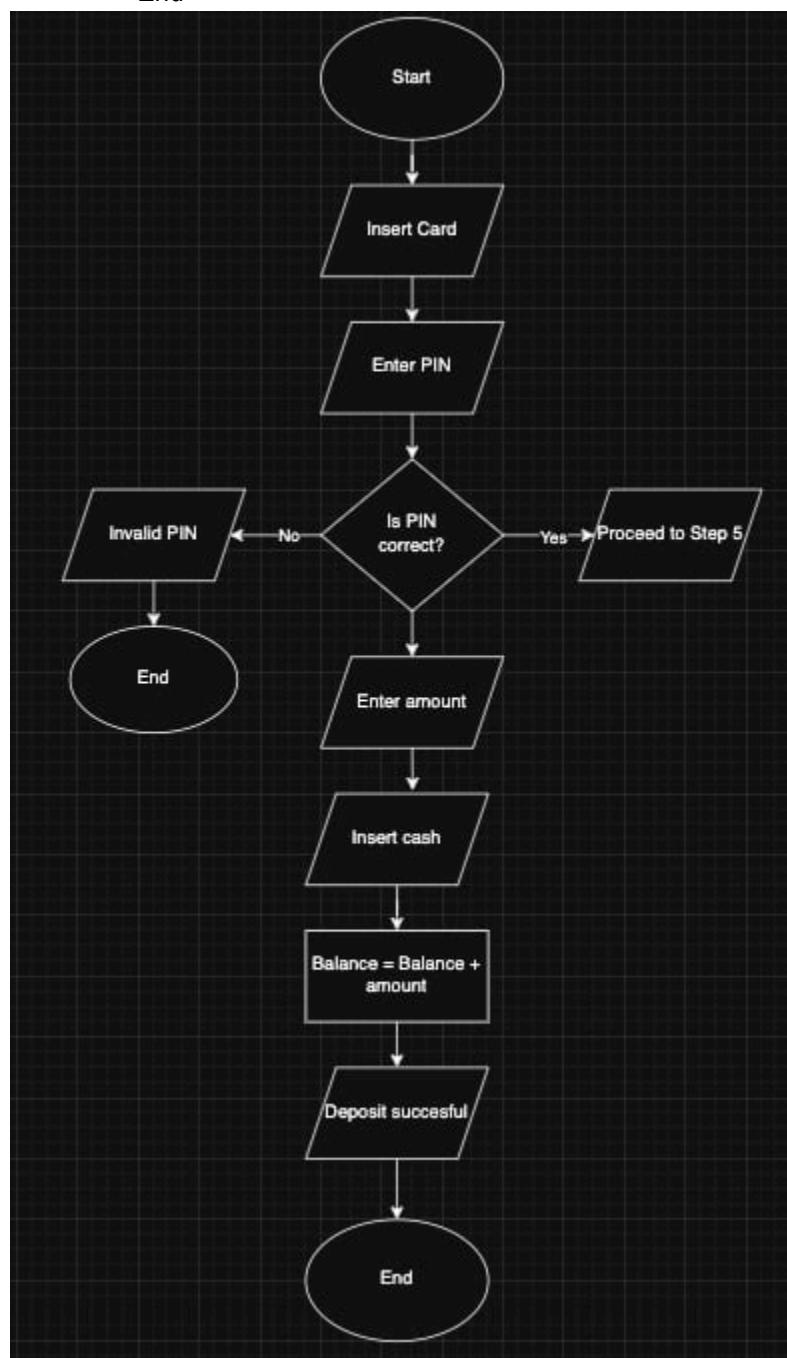
If Yes > Enter amount

Insert Cash

Balance = Balance + amount

Display "Deposit successful"

End



Fund Transfer

Start

Insert Card

Enter PIN

Is PIN correct?

If No > Show "Invalid PIN"

End

If Yes > Enter recipient account

Enter amount

Is the amount greater than balance?

If Yes > Show "Insufficient Balance"

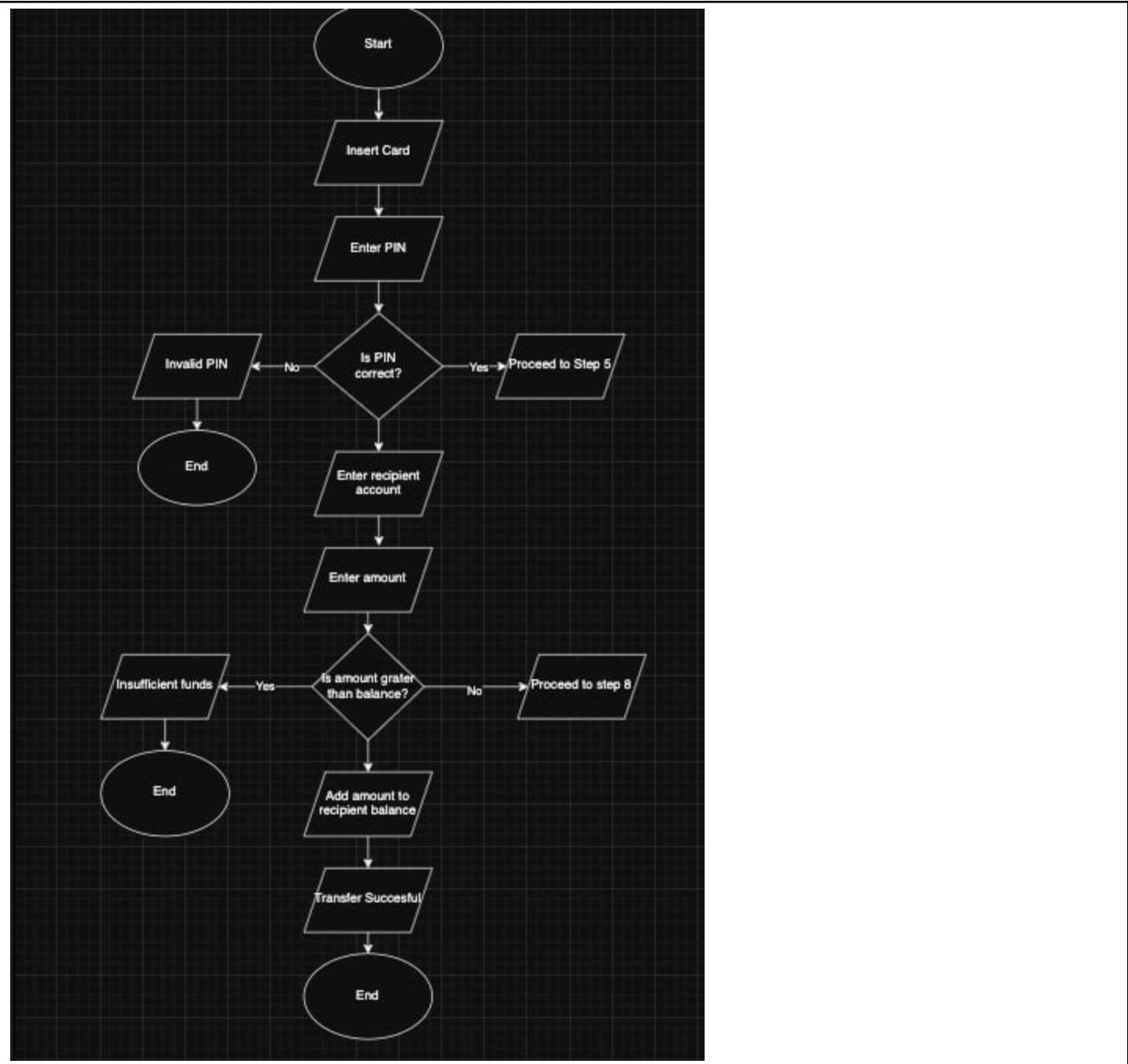
End

If No > Balance = balance - amount

Recipient Balance = Recipient Balance + Amount

Display "Transfer successful"

End



7. Supplementary Activity

8. Conclusion

Getting used to doing pseudo codes and flowcharts this way, doing the pseudo codes first makes it easier and efficient to make flowcharts.

9. Assessment Rubric

Rubric for SO 7 (7)							
Criteria	Ratings						Pts
© SO 7 PI 1 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Educational interests and pursuits exist and flourish outside classroom requirements; knowledge and/or experiences are pursued independently and applies knowledge learned into practice	5 pts Good Educational interests and pursuits exist and flourish outside classroom requirements; knowledge and/or experiences are pursued independently	4 pts Satisfactory Look beyond classroom requirements, showing interest in pursuing knowledge independently	3 pts Unsatisfactory Begins to look beyond classroom requirements, showing interest in pursuing knowledge independently	2 pts Poor Relies on classroom instruction only	1 pts Very Poor No initiative or interest in acquiring new knowledge	6 pts
© SO 7 PI 2 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Completes an assigned task independently and practices continuous improvement	5 pts Good Completes an assigned task without supervision or guidance	4 pts Satisfactory Requires minimal guidance to complete an assigned task	3 pts Unsatisfactory Requires detailed or step-by-step instructions to complete a task	2 pts Poor Shows little interest to complete a task independently	1 pts Very Poor No interest to complete a task independently	6 pts
© SO 7 PI 3 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Synthesizes and integrates information from a variety of sources; formulates a clear and precise perspective; draws appropriate conclusions	5 pts Good Evaluate information from a variety of sources; formulates a clear and precise perspective.	4 pts Satisfactory Analyze information from a variety of sources; formulates a clear and precise perspective.	3 pts Unsatisfactory Apply the gathered information to formulate the problem	2 pts Poor Gather and summarized the information from a variety of sources but failed to formulate the problem	1 pts Very Poor Gather information from a variety of sources	6 pts
© SO 7 PI 4 ILO4 Utilize lifelong learning skills in pursuit of personal development and excellence in professional practice. threshold: 4.8 pts	6 pts Excellent Ideas are combined in original and creative ways in line with the new and emerging technology trends to solve a problem or address an issue.	5 pts Good Ideas are creative and adapt the new knowledge to solve a problem or address an issue	4 pts Satisfactory Ideas are creative in solving a problem, or address an issue	3 pts Unsatisfactory Shows some creative ways to solve the problem	2 pts Poor Shows initiative and attempt to develop creative ideas to solve the problem	1 pts Very Poor Ideas are copied or restated from the sources consulted	6 pts

Total Points: 24