



اَوْنُوْ رَسِيَّتِيْ بِاَتِيْكَوْ لَوِيْ بِمَارَا
**UNIVERSITI
TEKNOLOGI
MARA**

**SCHOOL OF INFORMATION SCIENCE
COLLEGE OF COMPUTING, INFORMATICS AND MATHEMATICS
UNIVERSITI TEKNOLOGI MARA
KEDAH BRANCH**

DIPLOMA IN LIBRARY INFORMATIC (CDIM144)

PROGRAMMING FOR LIBRARIES (IML208)

**ASSIGNMENT 1: INDIVIDUAL PROJECT
“CLOTHING BRAND FAMILY MEMBERSHIP”**

**Prepared by:
MUHAMMAD HAIKAL HAKIMI BIN ABDUL RAHMAN (2023148167)**

**GROUP:
KCDIM1443E**

**Prepared for:
SIR MOHD FIRDAUS BIN MOHD HELMI**

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ANALYSIS (MAIN)

Input: This let others know what the user selected from the main menu

Output: In response to the user's input, call to the other function are shown: -

Create family: create family members, username and password

Read members: read and show every member of the family and Print 'No family members found'. If there is no file or it is empty

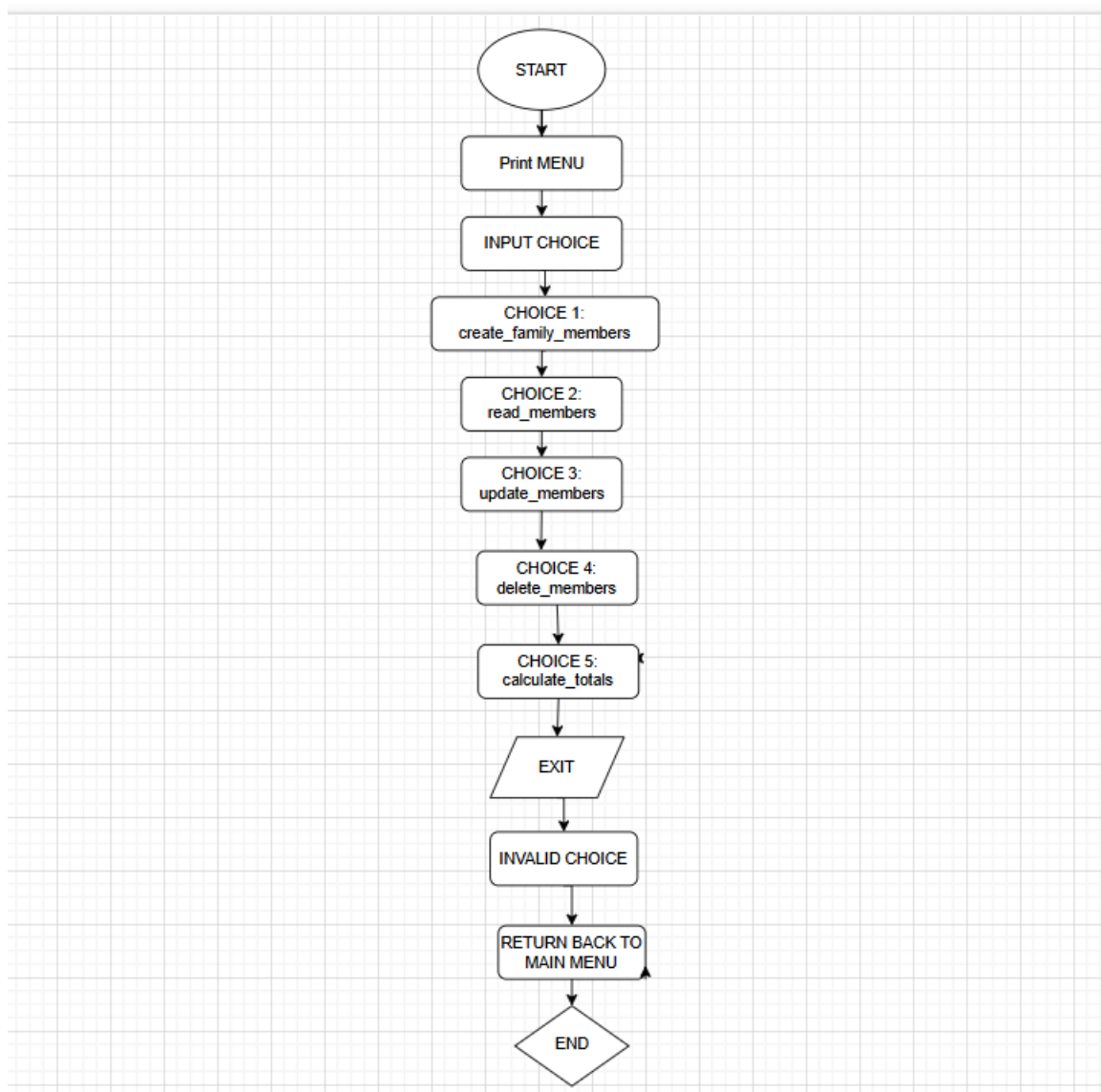
Delete members: Remove the relatives from the file

Calculate totals: calculate the totals of the family members

ALGORITHM (MAIN)

1. Display the main menu with the options from 1-6.
2. Choose one from the menu.
3. Get the users choice:
 - Add family members
 - View family members
 - Update family members
 - Delete family members
 - Calculate family members
 - Exit (if you choose to exit)
4. Repeating the process depends on user's choice.

FLOWCHART (MAIN)



PSEUDOCODE (MAIN)

```
1  print "Exiting the system. Goodbye and Thank You for
2  Joining the Membership!"
3  break
4  else
5  print "Invalid choice. Please try again."
6  end if
7  end while
8  end procedure
9  procedure create_family(member_id, name, password)
10 members = read_all_members()
11 append [member_id, name, str(password)] to members
12 write_all_members(members)
13 print "Member added successfully!"
14 end procedure
15 procedure read_members()
16 members = read_all_members()
17 if length of members == 0 then
18 print "No family members found."
19 else
20 print "ID\tName\tPassword"
21 for each member in members do
22 print member[0] + "\t" + member[1] + "\t" +
23 member[2]
24 end for
25 end if
26 end procedure
27 procedure update_member(member_id, new_name,
28 new_password)
29 members = read_all_members()
30 updated = false
31 for each member in members do
32 if member[0] == member_id then
33 member[1] = new_name
34 member[2] = str(new_password)
35 updated = true
36 break
37 end if
38 end for
```

```
30  updated = false
31  for each member in members do
32  if member[0] == member_id then
33  member[1] = new_name
34  member[2] = str(new_password)
35  updated = true
36  break
37  end if
38  end for
39  if updated then
40  write_all_members(members)
41  print "Family Member updated successfully!"
42  else
43  print "Family Member not found!"
44  end if
45  end procedure
46  procedure delete_member(member_id)
47  members = read_all_members()
48  original_count = length of members
49  members = [member for member in members if
50  member[0] != member_id]
51  if length of members == original_count then
52  print "Member not found!"
53  else
54  write_all_members(members)
55  print "Member deleted successfully!"
56  end if
57  end procedure
58  procedure write_all_members(members)
59  file = open FILE_NAME for writing
60  for each member in members do
61  file.write(','.join(member) + '\n')
62  end for
63  file.close()
64  end procedure
65
```

ANALYSIS (CREATE)

This shows how to create family members for clothing memberships card

Input:

Enter your choice: 1

Enter Family member name:

Enter Family member username:

Enter family member password:

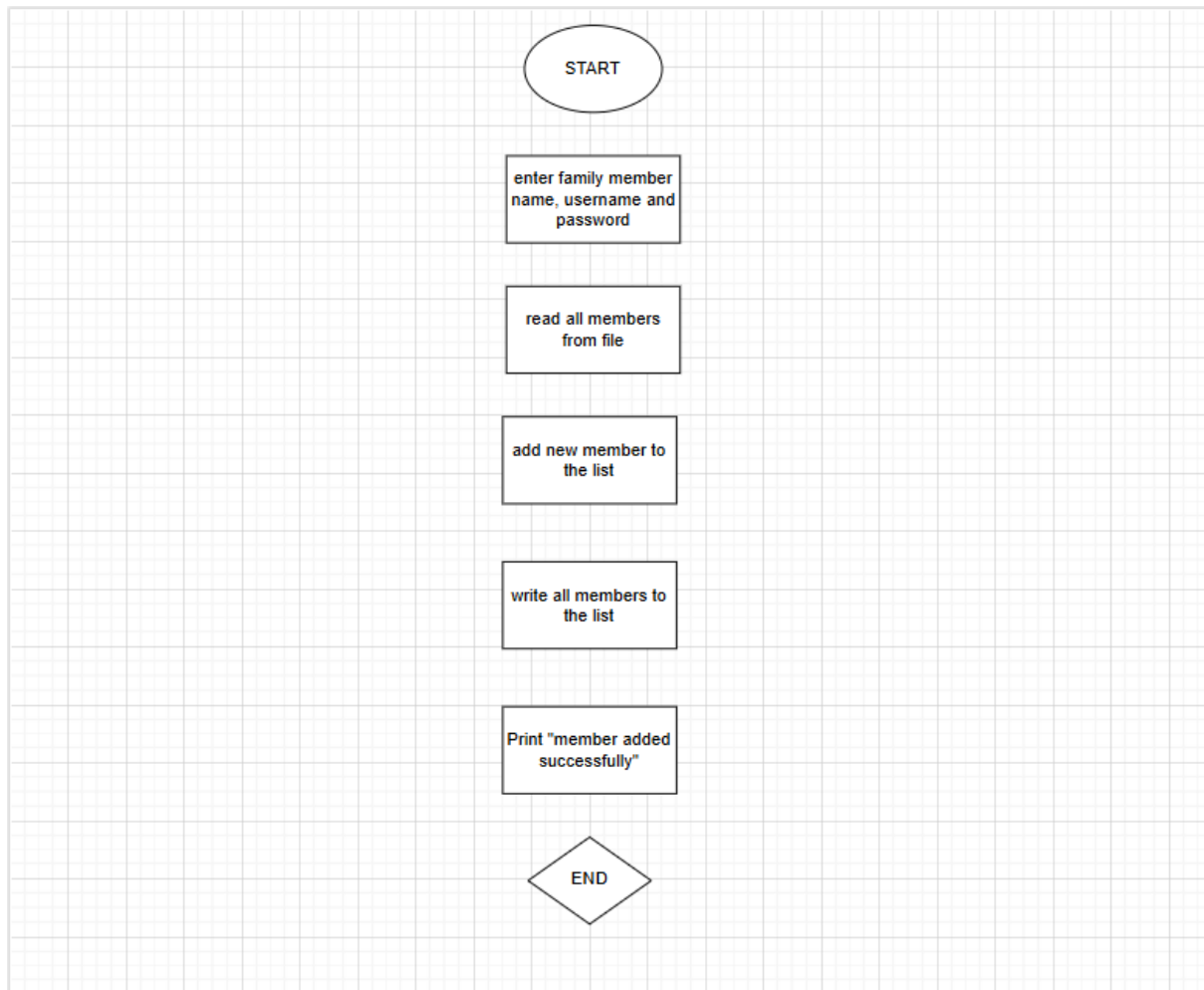
Output:

Family members added successfully

ALGORITHM (CREATE)

1. Users need to create family members which is enter users name, username and password
2. Read Existing Members Call the read_all_members function to retrieve existing members from the file.
3. Create a new list [member_name,username,str(age)] representing the new number
4. Print "Member added successfully!" to indicate successful addition of the new family member
5. Exit and return to the first.

FLOWCHART (CREATE)



PSEUDOCODE (CREATE)

```
1  function create_family(member_id, name, password):  
2      members = read_all_members()  
3      new_member = [member_id, name, str(password)]  
4      append new_member to members  
5      write_all_members(members)  
6      print "Member added successfully!"  
7  end function  
8
```


ANALYSIS (READ)

Input

Enter your choice: 2

Output:

NAME: HAIKAL

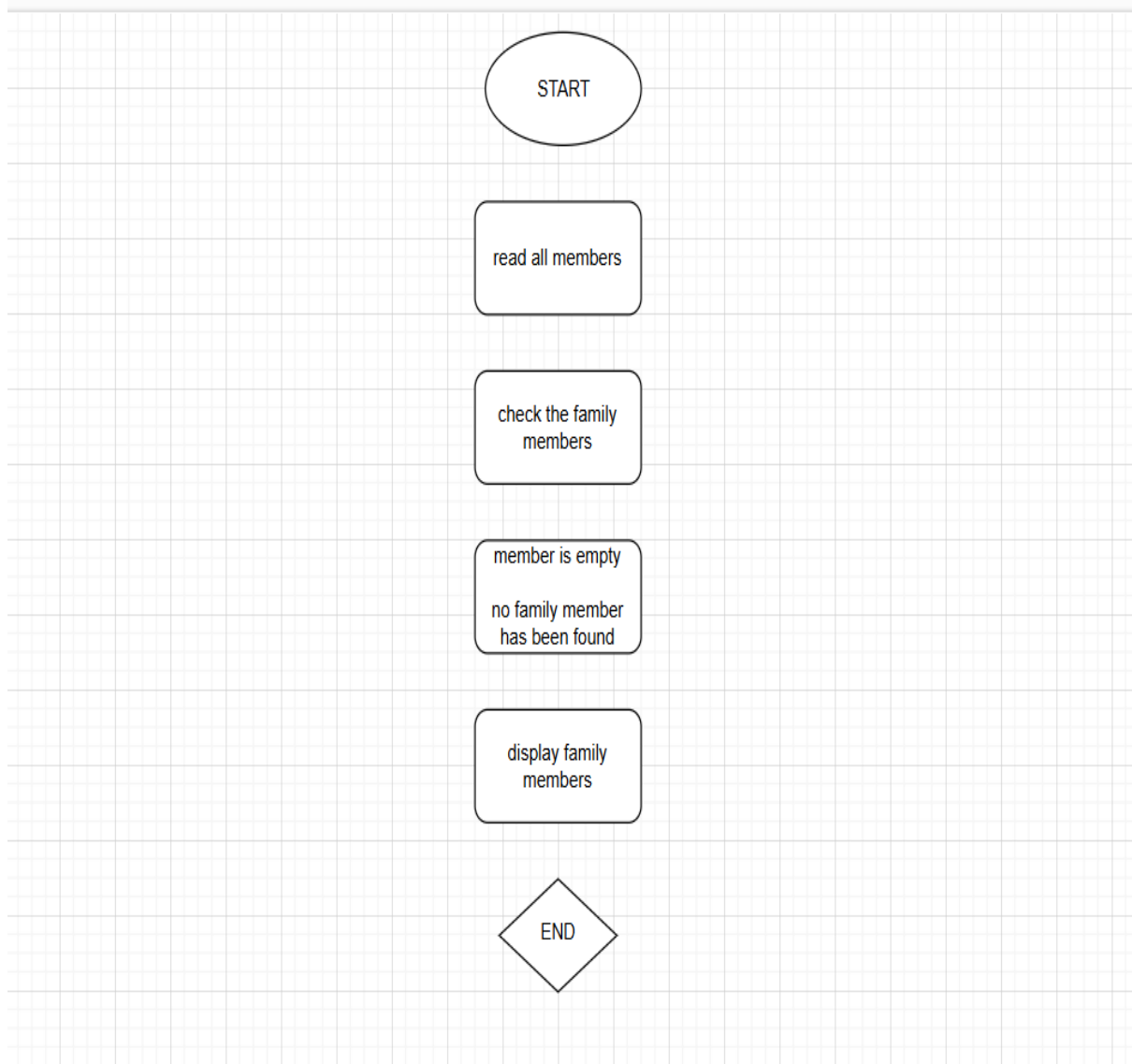
FAMILY MEMBER ID: QZY_01

PASSWORD: qal_2024

ALGORITHM (READ)

1. Check if the read members is functions
2. Read all members to retrieve all members information from 'members_txt'.
3. Check the existing members by their name, username, and their password.
4. If the members is empty the systems will show Print 'No family members found' on the screen.
5. Read all members to have the members details in the 'members_txt'.

FLOWCHART (READ)



PSEUDOCODE (READ)

```
1  function read_members():
2  members = read_all_members() // Call helper function to read all members
3  from file
4  if members is not empty:
5  print "ID\tName\tPassword" // Print header for formatting
6  for each member in members:
7  print member[0] + "\t" + member[1] + "\t" + member[2] // Print ID, Name, and
8  Password separated by tabs
9  else:
10 print "No family members found." // Print message if no members exist
11 // End of function
```

ANALYSIS (UPDATE)

This shows how to update family members for clothing brand membership card.

INPUT:

Enter your choice: 3

Enter Family Member ID to Update: QZY_06

Enter Family Member Name: Alif

Enter Family Member: alif_2023

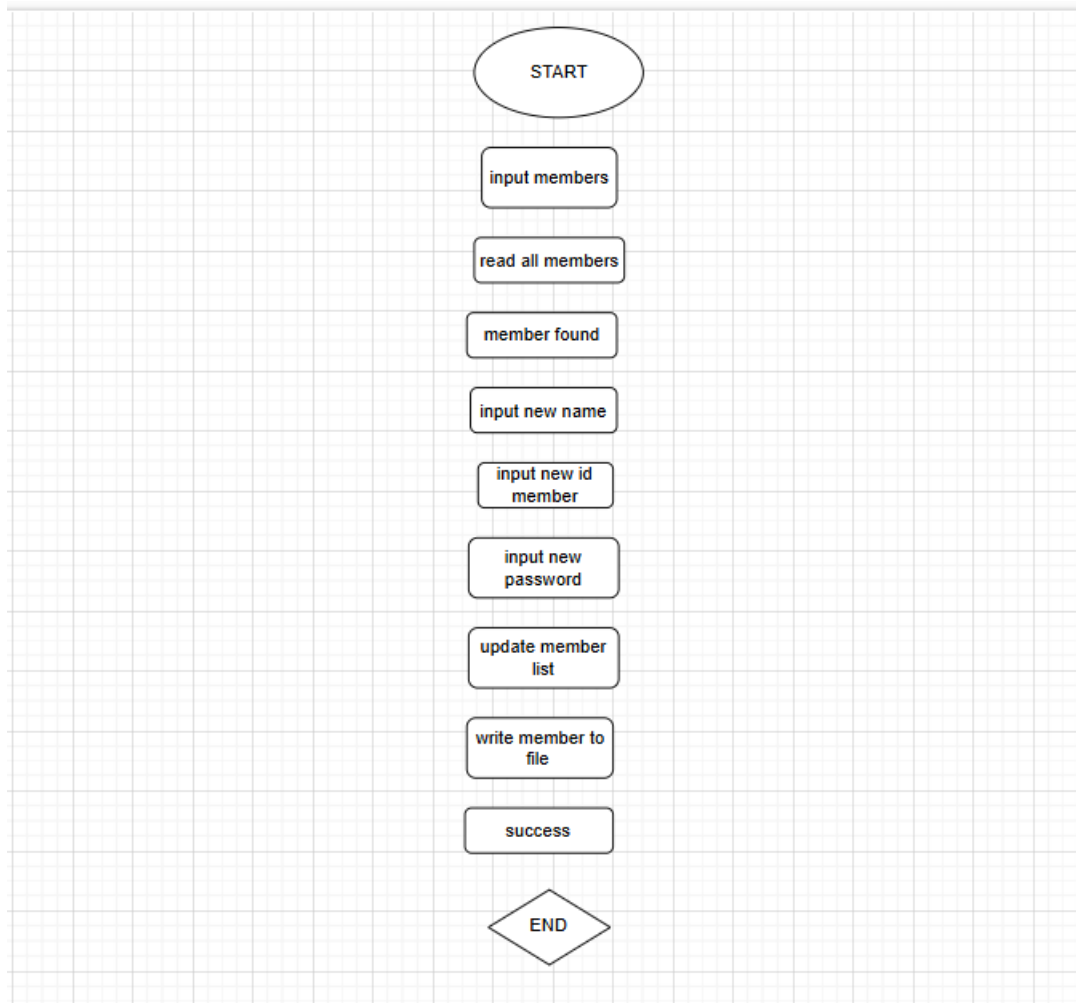
OUTPUT:

Family Member updated successfully!

ALGORITHM (UPDATE)

1. Check if the family members update is functions.
2. Users need to enter the family member ID to update for new member details.
3. If you can continue to the next step, users can enter the new members details to change.
4. Then back to the menu and choose view members to check if your details has been changed.
5. If it successfully changed it will show your new details after the update, if not it will stay like your detailed before.
6. Exit.

FLOWCHART (UPDATE)



PSEUDOCODE (UPDATE)

```
1  function update_member(member_id, new_name, new_password):
2      members = read_all_members() // Read all members from the file
3      updated = false // Flag to track if member was updated
4
5      // Iterate through each member in the list
6      for each member in members:
7          if member[0] == member_id then // Check if member ID matches
8              the provided ID
9              member[1] = new_name // Update member's name
10             member[2] = str(new_age) // Update member's password
11             updated = true // Set updated flag to true
12             break // Exit the loop once member is updated
13
14     // If member was updated, write the updated list back to the file
15     if updated then
16         write_all_members(members) // Write updated members list to the
17         file
18         print "Family Member updated successfully!" // Print success
19         message
20     else:
21         print "Family Member not found!" // Print message if member with
22         given ID was not found
23
```

ANALYSIS (DELETE)

This shows how to delete family members that has been registered for clothing brand membership card

INPUT:

Enter your choice: 4

Enter Family Member ID to Delete: QZY_06

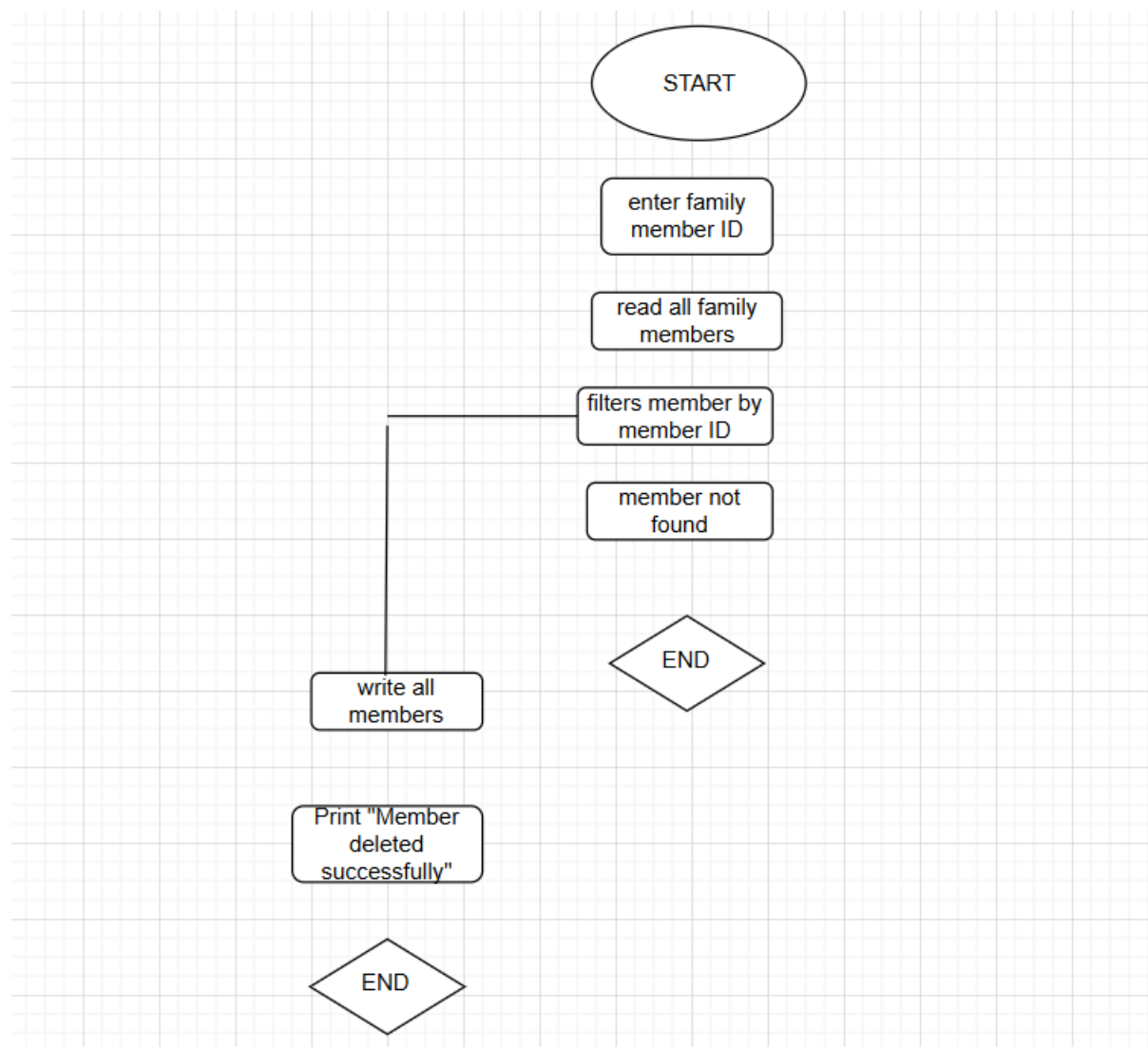
OUTPUT:

Family Member Deleted successfully!

ALGORITHM (DELETE)

1. Check if the deleted family members is functioning.
2. Users need to enter the ID of the members to delete it from the system.
3. If the deleted is successfully deleted, then go back to the main menu.
4. Choose the view members to check if the member has been deleted or not.
5. Exit.

FLOWCHART (DELETE)



PSEUDOCODE (DELETE)

```
1  If length of members is equal to original_count:
2  Print "Member not found!"
3  Call write_all_members(members) to update the file with the modified list
4  of members.
5  Print "Member deleted successfully!"
6  |
```