

# Pseudocode

PHONEBOOK = [ ]

WHILE TRUE

    DISPLAY MENU:

1. INSERT CONTACT
2. SEARCH CONTACT
3. DISPLAY ALL CONTACTS
4. DELETE CONTACT
5. UPDATE CONTACT
6. EXIT

    PROMPT USER TO "CHOOSE AN OPTION: "

    GET USER\_CHOICE

    IF USER\_CHOICE == 1 THEN

        PROMPT USER TO "ENTER NAME: "

        GET NAME

    PROMPT USER TO "ENTER PHONE NUMBER: "

        GET PHONE\_NUMBER

        PROMPT USER TO "ENTER EMAIL: "

        GET EMAIL

        CREATE NEW CONTACT WITH NAME, PHONE\_NUMBER, AND EMAIL

        ADD NEW CONTACT TO PHONEBOOK

        PRINT "CONTACT ADDED!"

    ELSE IF USER\_CHOICE == 2 THEN

        PROMPT USER TO "ENTER NAME OR PHONE NUMBER TO SEARCH: "

        GET SEARCH\_QUERY

        SEARCH FOR CONTACT IN PHONEBOOK WHERE NAME OR PHONE\_NUMBER MATCHES SEARCH\_QUERY

        IF CONTACT IS FOUND THEN

            PRINT CONTACT DETAILS

        ELSE

            PRINT "CONTACT NOT FOUND."

```
ELSE IF USER_CHOICE == 3 THEN
    IF PHONEBOOK IS EMPTY THEN
        PRINT "PHONEBOOK IS EMPTY."
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    ELSE
        FOR EACH CONTACT IN PHONEBOOK
            PRINT CONTACT DETAILS
        END FOR
```

```
ELSE IF USER_CHOICE == 4 THEN
    PROMPT USER TO "ENTER NAME OR PHONE NUMBER TO DELETE: "
    GET DELETE_QUERY
    SEARCH FOR CONTACT IN PHONEBOOK WHERE NAME OR PHONE_NUMBER MATCHES DELETE_QUERY
    IF CONTACT IS FOUND THEN
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        REMOVE CONTACT FROM PHONEBOOK
        PRINT "CONTACT DELETED."
    ELSE
        PRINT "CONTACT NOT FOUND."
```

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ELSE IF USER_CHOICE == 5 THEN
    PROMPT USER TO "ENTER NAME OR PHONE NUMBER TO UPDATE: "
    GET UPDATE_QUERY
    PROMPT USER TO "ENTER NEW NAME: "
    GET NEW_NAME
    PROMPT USER TO "ENTER NEW PHONE NUMBER: "
    GET NEW_PHONE_NUMBER
    PROMPT USER TO "ENTER NEW EMAIL: "
    GET NEW_EMAIL
    SEARCH FOR CONTACT IN PHONEBOOK WHERE NAME OR PHONE_NUMBER MATCHES UPDATE_QUERY
    IF CONTACT IS FOUND THEN
        UPDATE CONTACT DETAILS WITH NEW_NAME, NEW_PHONE_NUMBER, AND NEW_EMAIL
        PRINT "CONTACT UPDATED."
    ELSE
        PRINT "CONTACT NOT FOUND."
```

ELSE IF USER\_CHOICE == 6 THEN

PRINT "EXITING."

BREAK

ELSE

PRINT "INVALID CHOICE. TRY AGAIN."

END WHILE

## Flowchart

