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file1 = open("book.txt", "w")
file1.close
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def show_main_menu():
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    print("\n  * Phone Book Menu *\n"
          "-----\n"+
          "Enter 1,2,3,4 or 5:\n"+
          "Enter 1 To Display Contacts Records\n" +
          "Enter 2 To Add a New Contact \n"+
          "Enter 3 To search & Update contacts\n"+
          "Enter 4 To Delete  contacts\n"+
          "Enter 5 To Quit\n****")
    choice = input("Enter your choice: ")
    if choice == "1":
        file1 = open("book.txt", "r+")
        file_contents = file1.read()
        if len(file_contents) == 0:
            print("Phone Book is empty")
        else:
            print (file_contents)
        file1.close
        ent = input("Press Enter to continue ...")
        show_main_menu()
    elif choice == "2":
        enter_contact_record()
        ent = input("Press Enter to continue ...")
        show_main_menu()
    elif choice == "3":
        search_existing()
        ent = input("Press Enter to continue ...")
        show_main_menu()
    elif choice == "4":
        del_rec()
        print("Thanks for using Phone Book ")
    else:
        print("Wrong choice, Please Enter [1 to 5]\n")
        ent = input("Press Enter to continue ...")
        show_main_menu()
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```
def search_contact_record():
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    search_name = input("Enter First name for Searching contact record: ")
    rem_name = search_name[1:]
    first_char = search_name[0]
    search_name = first_char.upper() + rem_name
    file1 = open("book.txt", "r+")
    file_contents = file1.readlines()

    found = False
    for line in file_contents:
        if search_name in line:
            print("Your Required Contact Record is:", end=" ")
            print (line)
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        found=True
        break
    update_contact()
if found == False:
    print("There's no contact Record in Phone Book with name = " + search_name )

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```
def search_existing():
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    file1 = open("book.txt", "r+")
    file_contents = file1.readlines()
    choice = int(input("Enter search criteria\n1. Name\n2. Number\n3. Email-id\nPlease enter: "))

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    temp = []
    check = -1

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    if choice == 1:
        query = str(input("Please enter the name of the contact you wish to search: "))
        for i in range(len(file_contents)):
            if query == file_contents[i][0]:
                check = i
                temp.append(file_contents[i])
    elif choice == 2:
        query = int(input("Please enter the number of the contact you wish to search: "))
        for i in range(len(file_contents)):
            if query == file_contents[i][1]:
                check = i
                temp.append(file_contents[i])

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    elif choice == 3:
        query = str(input("Please enter the e-mail ID\
of the contact you wish to search: "))
        for i in range(len(file_contents)):
            if query == file_contents[i][2]:
                check = i
                temp.append(file_contents[i])
    else:
        print("Invalid search criteria")
        return -1

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def del_rec():
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    file1 = open("book.txt", "r+")
    file_contents = file1.readlines()
    name = input('Enter the name of the contact details you wish to view: ')
    if name in file_contents:
        print('The contact is',name,':',file_contents[name])
        confirm = input('Are you sure you wish to delete this contact? Yes/No: ')
        if confirm.capitalize() == 'Yes':
            file_contents.pop(name,None)

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    else:
        print('That contact does not exist! Return to the main menu to enter the contact')

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```
def input_fname():
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    fname = input("Enter First name ")
    rem_fname = fname[1:]

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first_char = fname[0]
return first_char.upper() + rem_fname
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def input_lname():
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    lname = input("Enter Last name ")
    rem_lname = lname[1:]
    first_char = lname[0]
    return first_char.upper() + rem_lname
```

```
def enter_contact_record():
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```
    first = input_fname()
    last = input_lname()
    phone = input('Enter Phone number ')
    email = input('Enter E-mail ')
    contact = ("[" + first + " " + last + ", " + phone + ", " + email + "]\n")
    file1 = open("book.txt", "a")
    file1.write(contact)
    print( "This contact\n " + contact + "has been added successfully!")
```

```
show_main_menu()
```