Vcard:

The project is to create a vcard database which is a fully functional program where it should be methodical and it should perform tasks according to the user input.

The basic requirements:

- Allow the user to enter new contacts and save them
- Allow a user to search for a name or a phone number or an email address. Return the full contact if found. Return a useful error message if not found.
- Allow the user to print all contacts in the address book to the screen
- Allow the user to delete contacts from the address book
- After searching for and finding a contact, let the user choose to edit the contact
- Allow the user to print all contacts in the address book to the screen
- Your program should store all the vCards file in a single file.

The program has 3 files :

- Main.py
- Helper_functions.py
- Read_write_into_file.py

Main.py:

Main.py handles the main logic of the program and it is the file which should be run in order to kick-start the application.

Helper_functions.py:

Helper_functions.py contains all the necessary functions which handles all the operations of each desired task.

Read_write_into_file.py

Read_write_into_file.py contains the functions which interacts with the system to read , write or delete contents.

tests.py

test.py contains the functions for unit tests.

The design of the program's flow:

Create a menu for the tasks to be performed in numbered fashion

please select the appropriate number

1. Enter new vcard

2. Search Vcard

3. Print all the cards

4. Delete card

5. End Program

1st_case - Enter new card:

Please select your choice: 1

=============Please enter the contact details =============

- First name   : input

- Last name   : input

- E-mail address   : input@xyz.com

- Phone number   : input in digits

    (Prints the vcard……)

    BEGIN:vcard

    FN: Firstname Lastname

    N:Lastname;Firstname

    EMAIL;INTERNET: E-mail

    TEL;WORK: Phone number

    VERSION: 2.1

    END:VCARD

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2nd case- Search vcard:

<u>a) yes case:</u>

Enter the fullname or email or phone number : input

Below details are found in the database

> *BEGIN:vcard*
>
> *FN: First Name Last Name*
>
> *N:Last name;First name*
>
> *EMAIL;INTERNET: email*
>
> *TEL;WORK:0123456789*
>
> *VERSION: 2.1*
>
> *END:VCARD*

Do you want to edit this contact information[y/n]: y

1 : first_name

2 : last_name

3 : email

4 : phone_number

*Choose the number you want to edit : ***proceed to edit****

<u>b) No case:</u>

Do you want to edit this contact information[y/n]: n

Calls the menu again…

3ʳᵈ case – Print all card:

Prints all the available cards in the databse

4ᵗʰ case- Delete card

Enter the fullname or email or phone number to delete : input

{'first_name': 'input', 'last_name': 'input', 'full_name': 'input', 'email': 'sashank@gmail.com', 'phone_number': 'input'}

Record has been deleted

5th case – End program:

Exits the program

Prints('Good bye')

This will be the basic design and structure which maintains the flow of the code.