```python
def show_menu():                                                        ###    Section 1 Create a Menu
    choice = input("""     Main Menu
    1) Add new Address
    2) Existing Address
    3) Veiw all Address where lastname start with letter
    4) List All Address
    5) Quit
    """)                                                                 ###  it will show the user what to choice from the
mian menu
    try:
        choice = int(choice)
    except:                                                              ### I use try and except if there is any error
may occur and want to do something instead.
        choice = 0
    return choice                                                        #### it will return us to the choice
def new_address():
    data = {}                                                            ## that is Dictionaries are used to store data values in key:
value pairs and it make it easy to change in Section 3
    Add = True
    data["firstname"] = input("Enter firstname: ")                       ## i used true and false to make sure They do not make the
first name and last name empty if they are empty it will print no name added
    if data["firstname"] == "":
        Add = False
        print("No Name Added")
        return data,Add
    data["lastname"] = input("Enter lastname: ")
    if data["lastname"] == "":
        Add = False
        print("No Name Added")
        return data,Add
    data["address1"] = input("Enter address1 : ")
    data["address2"] = input("Enter address2 : ")
    data["address3"] = input("Enter address3 : ")
    data["address4"] = input("Enter address4 : ")
    data["postcode"] = input("Enter postcode : ")
    data["stdCode"] = input("Enter stdCode : ")
    data["telephone"] = input("Enter telephone : ")
    return data,Add
def change_address(old_Data):
    new_data = {}                                                        ## The new data it will be for the new data the
use are going to enter
    Add = True
    lastname_List = []
    lastname = input("Enter lastname to be changed: ")
    for data in old_Data:                                                ## It's going to compare the last name
in the old data with the new last name is going to be into from the user
        lastname_List.append(data["lastname"])
    if lastname in lastname_List:
        new_data["address1"] = input("Enter address1 : ")
        new_data["address2"] = input("Enter address2 : ")
        new_data["address3"] = input("Enter address3 : ")
        new_data["address4"] = input("Enter address4 : ")
        new_data["postcode"] = input("Enter postcode:  ")
        new_data["stdCode"] = input("Enter stdCode : ")
        new_data["telephone"] = input("Enter telephone : ")
        for data in old_Data:                                            # old_Data = [{},{},{},...]
                                                                         # data = {"lastname":"....","
firstname":"....",.....}
            if data['lastname'] == lastname:
                data['address1'] = new_data["address1"]
                data['address2'] = new_data["address2"]
                data['address3'] = new_data["address3"]
                data['address4'] = new_data["address4"]
                data["postcode"] = new_data["postcode"]
                data["stdCode"] = new_data["stdCode"]
                data["telephone"] = new_data["telephone"]
    else:                                                                ### If the last name was not
found in the list of the dictionary it will print last name was not correct
        print("lastname is not correct")
    return old_Data
def view_lastname(old_Data):
    firstletter = input("Enter first letter of lastname: ")              ### By entering
the The first letter of the last name it will show all the data been stored for the person
    for data in old_Data:                                               ###for loop
        if data["lastname"].startswith(firstletter):                    ### Start with is a function that see the first letter and
compare it with what you want To make sure it is the same letter you have entered before
            print("firstname: {}".format(data["firstname"]))
            print("lastname:  {}".format(data["lastname"]))
            print("address:   {}".format(data["address1"]))
            print("           {}".format(data["address2"]))
            print("           {}".format(data["address3"]))             ## It will print all the details of the
person was entered his first letter from his last name
            print("           {}".format(data["address4"]))
            print("postcode:  {}".format(data["postcode"]))
            print("stdCode:   {}".format(data["stdCode"]))
            print("telephone: {}".format(data["telephone"]))
def view_all(old_Data):
    for data in old_Data:                                               ### It will print all the data been into and this application been changed
or not change
        print("firstname : {}" .format(data["firstname"]))
        print("lastname  : {}" .format(data["lastname"]))
        print("address   : {}" .format(data["address1"]))
        print("            {}" .format(data["address2"]))
        print("            {}" .format(data["address3"]))               ### It will print all details in the dictionary
        print("            {}" .format(data["address4"]))
        print("postcode  : {}" .format(data["postcode"]))
        print("stdCode   : {}" .format(data["stdCode"]))
        print("telephone : {}" .format(data["telephone"]))
def Save_Data(Data):
    File = open("Data.txt","w")              ##It will open a file and save everything the user input and that will save it in that file
    Data = str(Data)                         ##It will save any numbers or letters to the file string
    File.write(Data)

choice = show_menu()
```

```python
Data = []                                                    #Data = [{"firstname":"...","
lastname":"..."},{},{}....]
while choice != 5:
    if choice not in [1,2,3,4]:
        print("input not recognised. please try again...")
    elif choice == 1:                                        ###  Section 1 Create a Menu

        data,Add = new_address()                             # data = {"firstname":"...","lastname":"..."}
        if Add:
            Data.append(data)
    elif choice == 2:                                        ###  Section 2 Entering and Changing Data
        Data = change_address(Data)                          # Will back
    elif choice == 3:                                        ### Section 3 Displaying the Entered Data
        view_lastname(Data)
    elif choice == 4:                                        ### Section 4 Software Development Protocols
        view_all(Data)
    choice = show_menu()
Save_Data(Data)                                              ## Everything will be Saved to the data file
when the user quit
```