

INF 110 Challenges Chapter 8 Access VBA Programming

Challenges Chapter # 8

[Access 2010 2013 2016 User Instructions](#)

Challenges 2-5 Page 214 Access VBA Programming Textbook

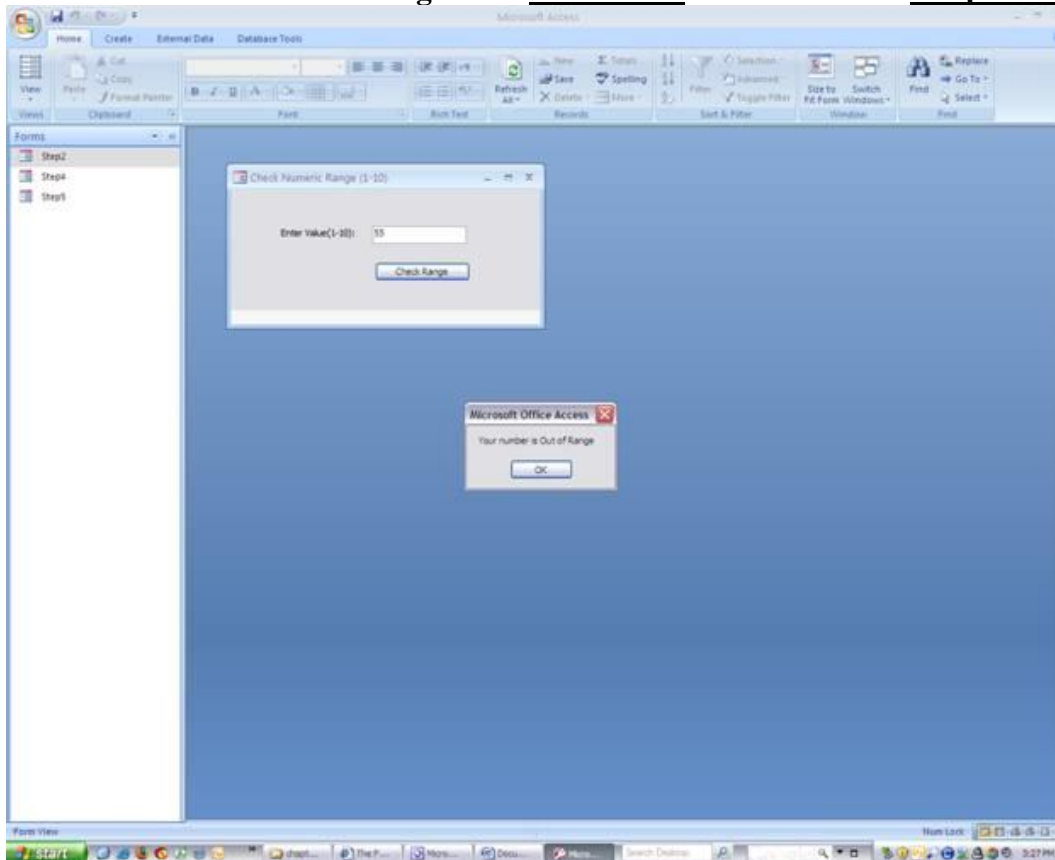
Do steps 2-5 to produce a database named **challengesChapter8AccessVBALastName.accdb**.

General Guidelines: Create 3 different forms in **challengesChapter8AccessVBALastName.accdb** one for challenge 2, challenge 4, and challenge 5; name the forms Step2, Step4, and Step5.

Flowchart: Be sure to create a flowchart for challenges (2-5) on page 214 of the Access textbook by using the PowerPoint shapes symbols. Use slide 19 in Access 8 PowerPoint as a starting point for challenge 2. Use slides 58 and 59 in Access 8 PowerPoint as a starting point for challenge 4. You can also use slide 19 in Access 8 PowerPoint as a starting point for challenge 5 for the two decision boxes. Save the flowchart slides in a PowerPoint file named **FlowchartsChallengesChapter8AccessLastName.pptx**. Send me this file as an email attachment at least 3 days before the assignment is due so that I can check it for you. Submit this file in Blackboard together with your Access and Word files, as indicated in the directions at the bottom of this page.

Hints and corrections:

2. In step 2 on page 214, *before doing step 2 on page 214, use code from book on pages 194 and 195 for **Checking a Range of Values** as a guideline. Perhaps you can just *revise the program* that you did from those pages in class. To test your form enter three values; 55, 7, and four, this should test all three different error messages. See screen-shot listed below for sample form.*



Outputs to Word Document: (Access Chapter 8 Challenges.docx)

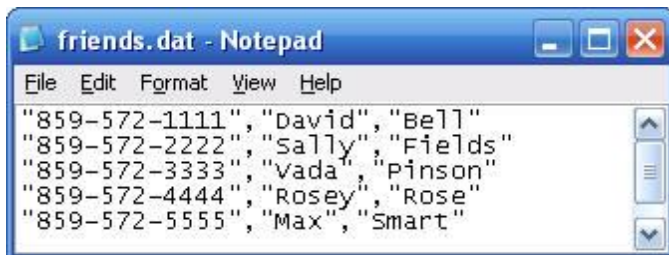
Create a new Word document called **Access Chapter 8 Challenges.docx** and type in ("Access

Chapter 8 Challenge 2 form") as the first line of the document. Run the Step2 form in Access using your first data value of 55, press the Print Screen key on the keyboard to get a copy of the screen-shot onto the clipboard, paste the screen-shot into your Word document under the Access Chapter 8 Challenge 2 form header. This will be the 1st page of your document. Start a new page in your Word document (**Access Chapter 8 Challenges.docx**) and type in ("Access Chapter 8 Challenge 2 code") as the first line of the new page. Copy and paste the code for step2 into your original Word document under the Access Chapter 8 Challenge 2 code header. This will be the 2nd page of your document.

3. In step 3 on page 214, use Notepad to create the data file called "**friends.dat**". Insert the five records listed below into the file. Use the sample data file "trivia.dat" on page 202 of book as guideline. Save this file in the same folder with **challengesChapter8AccessVBA.accdb** database.

phone number	first name	last name
"859-572-1111"	"David"	"Bell"
"859-572-2222"	"Sally"	"Fields"
"859-572-3333"	"Vada"	"Pinson"
"859-572-4444"	"Rosey"	"Rose"
"859-572-5555"	"Max"	"Smart"

See the screen-shot listed below to see the format for the friends.dat file.



Outputs to Word Document: (Access Chapter 8 Challenges.docx)

Start a new page in your Word document (**Access Chapter 8 Challenges.docx**) for the outputs for challenge 3. Type in ("Access Chapter 8 Challenge 3 text file") as the first line of the new page. After entering and saving the data listed in the screen-shot shown above, press the Alt + Print Screen keys on the keyboard to get a copy of the active-window onto the clipboard, paste the screen-shot into your Word document under the Access Chapter 8 Challenge 3 text file header. This will be the 3rd page of your document, but it is not completed yet, see the output instructions in the next step.

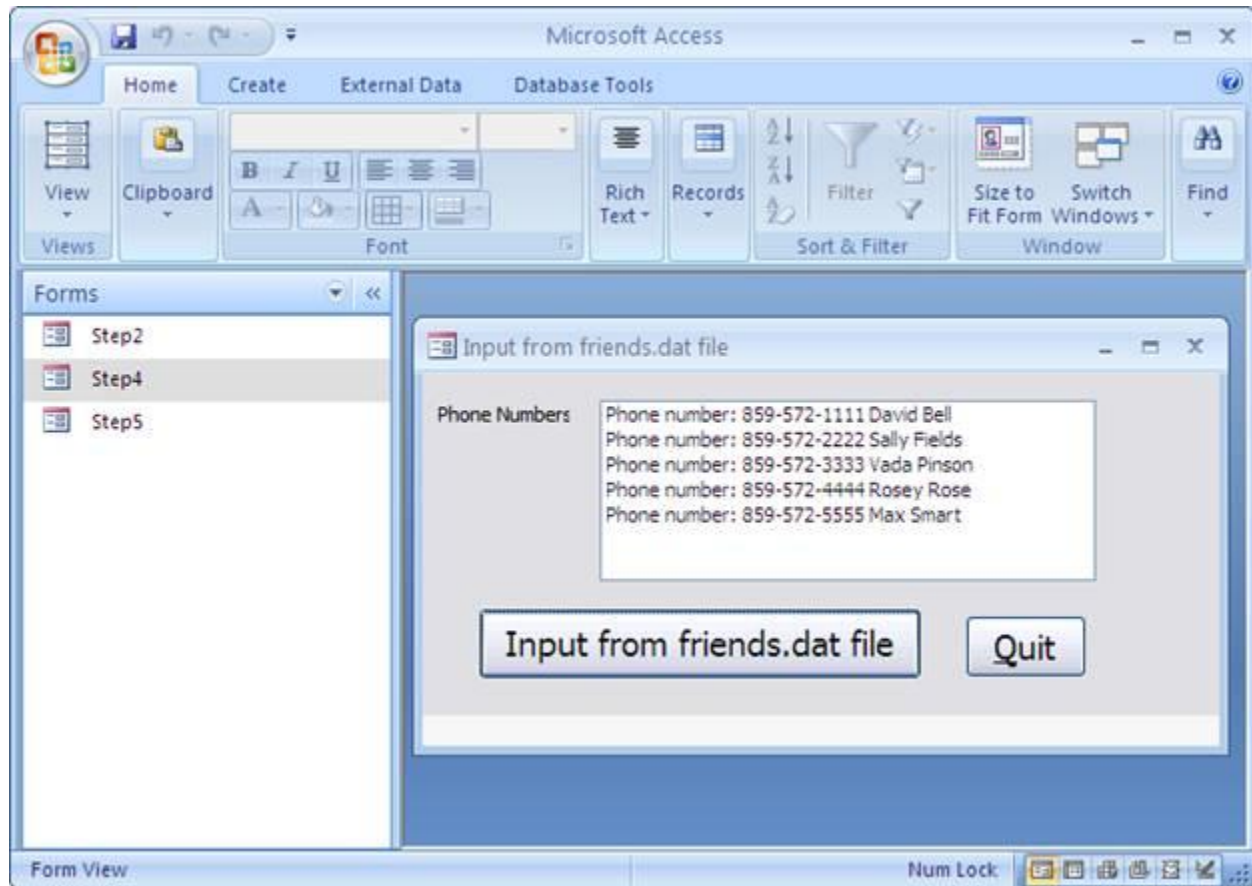
4. In step 4 on page 214, use the code in the middle of page 204 as a guideline to populate a list box with the data from "friends.dat" file created in challenge 3 above. Use the code from pages 206-208 in book to use as error handling when opening the "friends.dat" file. You might be able to cut and paste then revise some of the code from your in-class work.

(Note: To get the Input command button to input the data from the **friends.dat** file into the list box the value of the **Row Source Type** property **needs to be changed**. To do this right-click on the list box in design view and select Properties in the pop-up menu, click the Data tab at the top, then select the Row Source Type property and click on the down-arrow to the right and change its value from Table/Query to Value List.)

Use the following code for the Open statement to set the path for the file to be the same as the application.

Open Application.CurrentProject.path & "\\friends.dat" For Input As #1

See screen-shot listed below for sample form.



Outputs to Word Document: (Access Chapter 8 Challenges.docx)

Press the Enter key to put a blank line into your Word document (**Access Chapter 8 Challenges.docx**) for the outputs for challenge 4. Type in ("Access Chapter 8 Challenge 4 form") as the first line under the "friends.dat" screen-shot from Notepad. Run the Step4 form in Access, and then click the Input from friends.dat file command button, press the Print Screen key on the keyboard to get a copy of the screen-shot onto the clipboard, paste the screen-shot into your Word document under the Access Chapter 8 Challenge 4 form header. This will be the 2nd part of the 3rd page of your document. Start a new page in your Word document (**Access Chapter 8 Challenges.docx**) for the code outputs from challenge 4. Type in ("Access Chapter 8 Challenge 4 code") as the first line of the new page. Copy and Paste the Code from Step4 form into your Word document under the Access Chapter 8 Challenge 4 code header, this will take the next 2 pages of the Word document. This will be pages 4 & 5 of your document.

5. In step 5 on page 214, error check the text boxes to make sure that they are **not blank** (using the **IsNull** function) and they are **not numeric** (using the **InNumeric** function). See page 190 in book for examples using these two functions. Use message box function to display the appropriate warnings to user. After the record is appended to the file clear out the three text boxes, use the following table to add 3 records to the "friends.dat" file.

phone number	first name	last name
"859-572-6666"	"Betty"	"Rubble"
"859-572-7777"	"Olive"	"Oil"
"859-572-8888"	"Your First name"	"Your Last name"

Use the following code for the Open statement to set the path for the file to be the same as the application.

Open Application.CurrentProject.path & "\\friends.dat" For Append As #1

Coding hints: Pseudocode Outline (Put these in as comments in the code, then write each code statement under its comment)

' check to see if any field is blank (All 3 fields must be checked, use an OR operator with the IsNull function in an If statement)
' if blank print out an error message box
' if not blank check if any field is numeric (All 3 fields must be checked, use an OR operator with the IsNumeric in an If statement)
' if numeric print out an error message box
' if not numeric continue with the file processing by writing to the file

Note: you should only write to the file if the 3 text boxes passes the two tests by using the IsNull and IsNumeric functions.

See screen-shot listed below for sample form.

The screenshot shows the Microsoft Access application window. On the left, the 'Forms' pane lists 'Step2', 'Step4', and 'Step5', with 'Step5' selected. The main window displays a form titled 'Append Information to friends.da...'. The form has three text boxes: 'Phone Number:' containing '859-572-8888', 'First Name:' containing 'Your First Name', and 'Last Name:' containing 'Your Last Name'. Below these fields is a button labeled 'Append to File'. The bottom status bar shows 'Form View' and 'Num Lock'.

"friends.dat" file after *appending* the 3 records in the above table



```
"859-572-1111", "David", "Bell"
"859-572-2222", "Sally", "Fields"
"859-572-3333", "Vada", "Pinson"
"859-572-4444", "Rosey", "Rose"
"859-572-5555", "Max", "Smart"
"859-572-6666", "Betty", "Rubble"
"859-572-7777", "Olive", "Oil"
"859-572-8888", "Your First Name", "Your Last Name"
```

Outputs to Word Document: (Access Chapter 8 Challenges.docx)

Start a new page in your Word document (**Access Chapter 8 Challenges.docx**) for the outputs for challenge 5. **Type** in ("Access Chapter 8 Challenge 5 form") as the first line of the new page. **Run the Step5 form** in Access, and **enter the new records** "Betty Rubble" and "Olive Oil", **lastly enter the record containing your name**, **press the Print Screen** key on the keyboard to **get a copy of the screen-shot** onto the clipboard, **paste the screen-shot** into your Word document under the Access Chapter 8 Challenge 5 form header. After **entering and saving the data** listed in the table shown above, **open the "friends.dat" file in Notepad**, **press the Alt + Print Screen** keys on the keyboard to **get a copy of the active-window** onto the clipboard, **paste the screen-shot** into your Word document under the Step5 form screen-shot. This will be the 6th page of your document. **Start a new page** in your Word document (**Access Chapter 8 Challenges.docx**) for the code outputs from challenge 5. **Type** in ("Access Chapter 8 Challenge 5 code") as the first line of the new page. **Copy and Paste the Code** from Step5 form into your Word document. This will be the 7th page of your document.

Students should **submit the electronic versions** of the four files using the Assignments link, send the PowerPoint file with the flowcharts for the challenges named (**FlowchartsChallengesChapter8AccessLastName.pptx**), the database file for the challenges named (**challengesChapter8AccessVBALastName.accdb**), the Word document (**Access Chapter 8 ChallengesLastName.docx**) together with the In-Chapter work from this chapter (**In-Chapter8AccessVBALastName.accdb**), the forms in the In-Chapter database file should use the following names (**P194RangeNumbers**, **p195RangeLetters**, **p199DivideByZero**, **P200DebugObject**, **p203InputSingleRecord**, **p204InputRecordsListbox**, **OutputAppendToFile**, **p206-208ErrorTrapping**), **substitute your last name** for LastName listed in file names above)

Number of pages required in Word document: 7

Note: Steps to submit your work: Submit the four files by clicking on the Assignments link in the left pane then click Exer9 link in the right pane, Choose the **challengesChapter8AccessLastName.accdb** database, add another file named **Access Chapter 8 ChallengesLastName.docx**, add another file named **FlowchartsChallengesChapter8AccessLastName.pptx**, then click Submit.

Note: The Word Document, the Flowcharts, and the Challenges database are all submitted under the Exer9 link.

Next click on the InChap9 link. Choose the **In-Chapter8AccessLastName.accdb** database, then click Submit.