

Description

This lab exercise is to gain practice with reading data from an input file.

In this assignment, you are going to first create a new text file that your program will be able to read from, using any plain text editor. Make sure after you edit and save the file, that it is stored in the same directory location as python working directory for this lab. Create the following text file. Name it input1.txt.

```
Beverly
David
45
Leahna
Brad
99
5669
Joe
Mark
```

Your task is to:

- Open the file named "input1.txt"
- Read each line from the file and write it to the screen
- After the loop finishes reading the lines, close the file and exit the program

Part I: Read each line from the file and echo it to the screen

Complete the steps outlined below.

Lab9.py

STEP 1: open an input file named "input1.txt" You do not need to worry with error
checking right now

STEP 2: Add a loop to read each line of the file and print it to the screen

STEP 3: Close the file

Part II: Add more interesting behavior to the main program

Add code to your loop that reads each line in order to count the number of lines that contain a numeric value. Print this count to the screen after you have finished reading from the file.

Example: There are 3 lines containing numbers in this data file.

HINT: There is a built-in string utility that returns True if a string is numeric:

For example, suppose you have a variable named **text** containing a string, then the call :

text.isnumeric() would return True or False. You can use this to test each of the strings you read in from the file.

Part III (Optional):

Add logic to prompt the user for the input filename instead of hardcoding it. Check that the file given exists before trying to open it and read from it.

Finishing Up:

Upload the final version of your lab9.py program to canvas (after at least completing **Part II**).