**Student Questions:**

1. Refer to the lesson slides to do the following:
   1. Create a folder called “resources”
   2. Create a file called “myfile.txt”
   3. Select “myfile.txt” to be displayed in the Repl editor window
   4. Copy & paste the following text into “myfile.txt”

*Hello kind student\n*

*This is a message from your computer\n*

*I hope you are having fun learning to program\n*

*Remember to ask Mr. Nestor questions when you don’t understand.*

1. Refer to the lesson slides to create a program do the following:
   1. Open “myfile.txt” for reading
   2. Read each line from “myfile.txt” and print it to the console output
   3. Close “myfile.txt”
   4. Provide your program listing below.

fileHandle = open("resources/myfile.txt","r")

numLines = 0

for line in fileHandle :

print(line)

numLines +- 1

print("Number of lines is", numLines)

fileHandle.close()

1. Refer to the lesson slides to create a program do the following:
   1. Create “newfile.txt” and open it for writing
   2. Write several lines of text to the file
   3. Close “newfile.txt”
   4. Select “newfile.txt” to be displayed in the Repl editor window to confirm   
      the proper text was written
   5. Provide your program listing below.

Hello\n

Potatoes cool\n

Dogs cool too\n

fileHandle = open("newfile.txt", "w+")

fileHandle.write("Hello, this is a new file.\n")

fileHandle.write("You should see this when you ")

fileHandle.write("select the file in the file chooser window.\n")

fileHandle.close()

1. Research “Python open() Text Files” to learn more about text files
   1. List and explain of the following modes: r, r+, w, w+, a, a+, x

r: opens file in read only mode. Reads from beginning of file, and is the default func. of open()

r+: opens file for reading and writing

w: opens in write only mode. Will overwrite existing files with the same name

w+: opens file for reading and writing

a: opens file for appending new info to it.

a+: opens file for appending and reading

x: creates new file. If file already exists, operation seizes.

1. Research “Python Binary Files” to learn more about binary data files
   1. List and explain of the following modes: t, b

t: default mode. Opens in text mode

b : this opens in binary mode

* 1. Explain the difference between a text file and a binary file

Text files contain textual info, as in alphabets and digits and keyboard characters. Binary files contain bytes or compiled version of text file

* 1. List some applications that use text data files

MS Word, Google Docs, Notepad

* 1. List some applications that use binary data files

CMD, MS Office, Photoshop, and the rest of those suites. Many music and video players.

**Extension Question: (Optional)**

1. Write a program to do the following:
   1. Open a file for read, write and append.
   2. Print the contents of the existing file to console output
   3. Ask the user to type a line of text on the console input and store the text in a variable
   4. Ask the user if they want to append or overwrite the text in the file
   5. If they say “append” then append the new text to the end of the file
   6. If they say “overwrite” then delete the existing text and just add the   
      new text to the file
   7. Provide your program listing below.