**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.*

Done in class.

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.

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

fileHandle.write("hello where is my pizza. \n")

fileHandle.write("I am not making your pizza\n")

fileHandle.write("ok im fed with you food services \*hangs phone\*.\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 is for reading a file, a is for appending which can create a file if it does not exist, x is for creates a file and if does exist it will send an error, t is the default for text and b is for binary

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

The b mode stands for binary file type and the T mode is for regular text

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

Text files contain many characters and letters while binary can only be 0s and 1s

* 1. List some applications that use text data files

Notepad, Textpad, Wordpad.

* 1. List some applications that use binary data files

Applications that contain images, sounds, compressed files, etc. contain binary.

**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.