**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("rsources/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, this is a new file.\n")

fileHandle.write("You should see this text 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”- purpose to read out files

“r+”- purpose is to read and write the file

“w”- purpose is to write the file

“w+”-purpose to open file for reading and writing

“a”-purpose is to open a file for appending new information to it

“a+”-Opens file for both appending and reading

“x”-creates a file

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

t- text mode

b- binary mode

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

The main difference between text and binary files are their outputs. In text, the files contain letters from the alphabet whereas binary only contains numbers.

* 1. List some applications that use text data files

Text data files are used in applications such as word, power point, docs, etc.

* 1. List some applications that use binary data files

Binary data files are used in applications such as video editing apps and photo editing apps.

**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.