**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.

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.

Main PY

1. fileHandle= open("newfile.txt,","w+")
2. fileHandle.write("new file has been made.\n")
3. fileHandle.write("you can write anything you want.\n")
4. fileHandle.write("this is it for me so start coding.\n")
5. fileHandle.close()

newfile.txt

new file has been made.

you can write anything you want.

this is it for me so start coding.

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: read

R+: opens a file for reading and writing

W: write

W+: Opens a file for both writing and reading. Overwrites the existing file if the file exists.

A: to append (Adds its argument as a single element to the end of a list.)

A+: opens a file for both appending and reading.

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

B: changes thing to binary mode

T: Cannot be found

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

While Both binary and text files contain data stored in bits, the bits in text files are stored as characters while the bit in binary files are stored as custom data.

* 1. List some applications that use text data files

Microsoft word, text pad, notepad2, geany, WordPad

* 1. List some applications that use binary data files

Microsoft office, adobe Photoshop and various audio/video and media 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.