**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.

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: opens in read mode
      * r+: opens file with reading and writing. It places pointer at begging of file
      * w: opens file for writing
      * w+: opens file with read and write permissions
      * a: opens file in append mode
      * a+: opens file in append and reading
      * x: creates a new file if file already exists, it fails.
2. **Research “Python Binary Files” to learn more about binary data files**
   1. **List and explain of the following modes: t, b**
      * The t is used for text files and the b is used for binary files
   2. **Explain the difference between a text file and a binary file**
      * The main difference between text files and binary files is that text files hold textual information (alphabets, digits and special characters) and on the other hand Binary files contain bytes or compiled versions of text files (numbers).
   3. **List some applications that use text data files**
      * Word documents
      * Pdf
   4. **List some applications that use binary data files**
      * Audio files
      * Image files

**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.

fileHandle = open("newFile.txt", "a+")

chrCode = ord(input("Type a letter:"))

# note a is a ascil code 97

# note z is a ascil code 122

if (chrCode>= 97) and (chrCode<= 122) :

print("letter is in range between a-z")