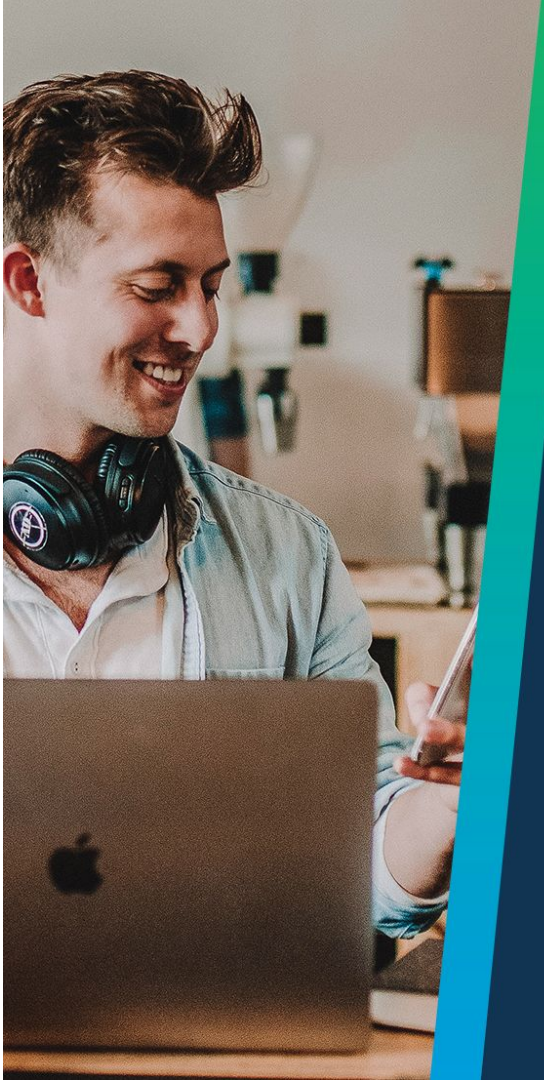

Cyber Security Bootcamp

Hyperiondev

Working with External Data Sources - Output

Welcome

Your Lecturer for this session

Joshua van Staden

Objectives

- Learn how to write data to files

Writing to Files

- ★ Often, we will want to write data to a new file.
- ★ Usually after we have done a lot of computations or data processing and we would like to save the work and come back to it at another point.
- ★ Writing to a file has a simple multi-step process.

Prepping the file

- ★ We already know how to open a file and store the file object in a variable.

- ★ Now the main difference between Input and Output is the access mode now changes.
  - Instead of reading from the file, we are now writing to the file (w , w+ , a)
- ★ What comes next is then, actually writing to the file. Which we will take a look at now.

Writing Example

```
with open("output.txt", "w") as file:

    file.write("Mankind knew, that they cannot change society.\n")
    file.write("So instead of reflecting on themselves.\n")
    file.write("They blamed the beasts")

    print("Items written")  # Sanity check

    # The write function, will write any data we provide
    #   within parentheses to our file.
    #       and since we're using a with as block.
    #           we don't need to use .close()
```

Things to Note

- ★ Remember that when the file is reopened and new data is written to the file, the previous data is then overwritten.
- ★ There is a way to preserve the previous data by using the append (a) access mode, this will simply append the new data to the end of the file, instead of overwriting.
- ★ Always remember to close your file when you are done using it.

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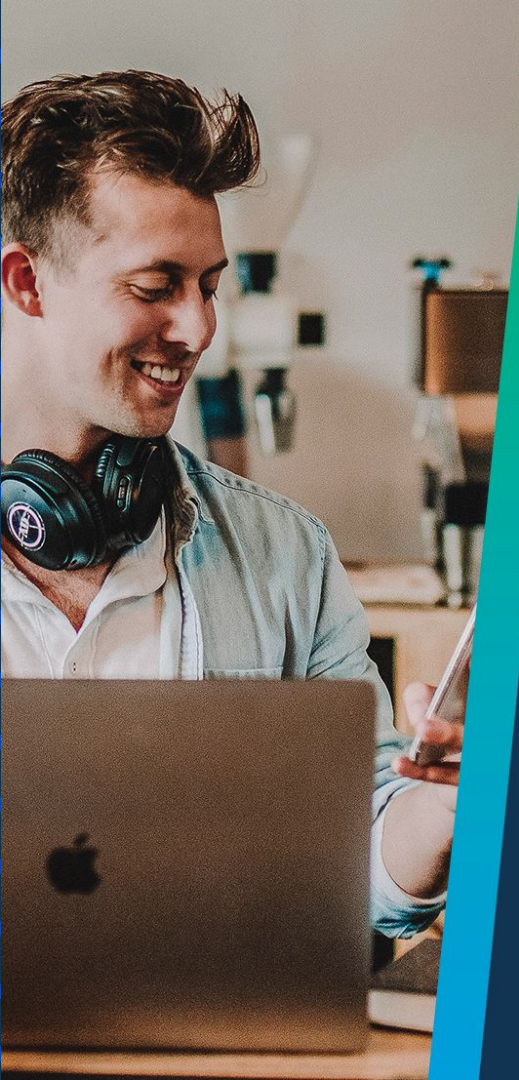
Q & A Section

Please use this time to ask any questions relating to the topic explained, should you have any



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Thank you for joining us