User Settings percipio38_documentation_best_practice.py percipio39_reading_text_files.py X **EXPLORER** . . . **A OPEN EDITORS** {} User Settings C:\Users\pcurtis7... percipio39 reading text files.py Q Percipio video: Working with Files; Reading Text Files percipio38_documentation_b... Demonstrate reading text from a file using the open() function percipio39_reading_text_files.... This is based on PEP 20 -- The Zen of Python **▲ PYTHON** Encoding is important and has a few choices ▶ Automate-Boring-Stuff ▶ my_code * leave blank and let the computer automatically decide * us is MS Windows encoding ▲ Percipio_Python3-Course * latin-1 is English text ▶ 01 Start ▶ 02_Data-Sequence Types * utf-8 * utf-16 ▶ 03_Collections-Mapping-Loopi... ▶ 04 Modules-Functions $nl = ' \ n'$ ▶ 05 Classes ■ 06_Working-with-Files print(nl, 'Iterating over lines:') Reading text from a file with default encoding percipio36_docstrings.py percipio37_code_comments.... with open('reading text files.txt') as text file: # uses the open() function to open a path to a file, it creates a 'file-like' object that can be automatically looped over. This percipio38_documentation_b... returns each line in the file. percipio39_reading_text_files... for line in text_file: percipio40_writing_data.py print(line, end='') percipio41_writing_large_file... percipio42_reading_binary_d... print(nl, 'Using the read() method:') percipio43_writing_binary_da... Reading text from a file with (Windows) "us" encoding percipio44 exercise create c... with open('reading text files.txt', encoding='us') as text file: text = text file.read() # use the file-like object to read the entire file print(text) ▶ 07 Comprehensions There is the ability to specify the number of bytes to read, but this is not typically ▶ 08_Iterables-and-Generators done with text files. ▶ 09_Exceptions ▶ Python Projects_2014 print(nl, 'Using readlines() method which creates a list of all lines in a file & allows working with individual lines:') # Note: readlines ■ Python_Basics.txt Reading text from a file with "utf-8" encoding ''' ■ Python_Clear-Window-Command... python_exercises_00.py with open('reading_text_files.txt', encoding='utf-8') as text_file: lines = text file.readlines() # automatically populates a list of all the lines from the python_exercises_01.py file Python_Tutorial_Running-Scripts.... print(lines) Python_Tutorials.md print(nl, 'Using readline() method which works with one line at a time:') # Note: readline

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	▲ OPEN EDITORS	print(nl, 'Using readline() method which works with one line at a time:') # Note: readline	Name -
Ω	User Settings C:\Users\pcurtis7	34 ''' Reading text from a file with "latin-1" encoding '''	The second
	percipio38_documentation_b	<pre>35 with open('reading_text_files.txt', encoding='latin-1') as text_file:</pre>	
છ	🅏 percipio39_reading_text_files	36 while 1: # endless while loop which attempts to read a line from the file	9079234
g	▲ PYTHON	37 line = text_file.readline() # returns only one line	
	Automate-Boring-Stuff	38 if not line: # if the while loop is not able to read a line,	
⊗	▶ my_code	39 break # then it breaks out of the loop,	
	Percipio_Python3-Course	40 else: # otherwise,	
	▶ 01_Start	41 print(line, end='') # the loop prints the line it can read.	
	02_Data-Sequence Types	42	
	03_Collections-Mapping-Loopi	43 print(nl, 'Using error Handling:')	
	04_Modules-Functions	44 ''' Errors happen from inability to find the file and/or specifying the incorrect encoding '''	_
	▶ 05_Classes	45 try: # try block allows the program to continue if the file has an error	
	06_Working-with-Files	46 ''' Reading text from a file with "utf-16" encoding '''	
	percipio36_docstrings.py	with open('reading_text_files.txt', encoding='utf-16') as text_file:	
	percipio37_code_comments	48 for line in text_file:	
	percipio38_documentation_b	49 print(line, end='')	
	percipio39_reading_text_files	50 except UnicodeError: # with a failed file, an error can be messaged	
	percipio40_writing_data.py	51 print('Error with Unicode encoding')	
	percipio 41_writing_large_file	52	
	percipio 42_reading_binary_d	53 RESULT:	
	percipio43_writing_binary_da	54 Iterating over lines:	

