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CIS-110/Program #6

Decode ASCII characters into text(Poem)

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IPO (Input, Process, Output):

Input:

A filename (default "poem.txt"). The file has ASCII space-separated strings, where each string represents an integer.

Process:

Open the file by the filename in read mode.

Read the file.

Split the file into a list of strings, using spaces as delimiters.

Work through each string in the list.

Convert the string to an integer.

Convert the integer to ASCII character.

Print the character without a newline (using end='').

If the string cannot be converted to an integer, print error message showing an invalid number.

If any other unexpected error occurs within the try block, print an error message with the error details.

If the file by the filename not found, print an error message.

Output:

Output printed to the console, forming the decoded "poem."

Error messages printed to the console if there are any with the file or data.

Pseudo Code:

function decode\_poem(filename = "poem.txt"):

Try:

Open file named 'filename' in read mode AS file\_handle

Read all content from file\_handle and split by spaces into list numbers\_string\_list

For each string num\_string in numbers\_string\_list:

Try:

Convert num\_string to integer and store in num

Convert num to character and store in char

Print char without newline

Catch value error:

Print "Invalid number in file: " + num\_string

Catch other exception as error:

Print "An unexpected error occurred: " + error

Close file\_handle

Catch file not found error:

Print "error: file '" + filename + "' not found."

Catch other exceptions as error:

Print "An unexpected error occurred: " + error

Call decode\_poem()