

1. char_analysis.py (40 points)

Write a program that reads the file's contents and determine the following:

1. The number of Uppercase letters in the file
2. The number of Lowercase letters in the file
3. The number of digits in the file
4. The number of whitespace characters in the file

HINTS:

Define main():

Declare Local variables

Open file text.txt for reading. Use 'text.txt' file **attached under module**.

User **for** loop to step through each character in the file.

Determine if the character is uppercase, lowercase, a digit, or space, and keep a running total of each.

Close the file.

Display the totals of uppercase, lowercase, digits, spaces.

Sample Output:

Uppercase letters: 29

Lowercase letters: 1228

Digits: 30

Spaces: 260