**TEXT ANALYZER**

import string

def analyze\_text(text):

"""

Analyzes the given text and returns various statistics.

"""

num\_chars = len(text)

num\_words = len(text.split())

num\_sentences = text.count('.') + text.count('!') + text.count('?')

# Remove punctuation and split the text into words

words = text.translate(str.maketrans('', '', string.punctuation)).split()

word\_lengths = [len(word) for word in words]

# Calculate average word length

avg\_word\_length = sum(word\_lengths) / num\_words if num\_words > 0 else 0

# Display the results

print("Number of characters:", num\_chars)

print("Number of words:", num\_words)

print("Number of sentences:", num\_sentences)

print("Average word length:", avg\_word\_length,": characters")

if \_\_name\_\_ == "\_\_main\_\_":

text = input("Enter text to analyze: ")

analyze\_text(text)