1. Write a program to print the number of vowels and number of consonants in the given statement and which is maximum

Program: def count\_vowels\_and\_consonants(statement):

vowels = "aeiouAEIOU"

num\_vowels = 0

num\_consonants = 0

for char in statement:

if char.isalpha():

if char in vowels:

num\_vowels += 1

else:

num\_consonants += 1

return num\_vowels, num\_consonants

def main():

statement = "This is a sample statement for counting vowels and consonants."

num\_vowels, num\_consonants = count\_vowels\_and\_consonants(statement)

print(f"Number of vowels: {num\_vowels}")

print(f"Number of consonants: {num\_consonants}")

if num\_vowels > num\_consonants:

print("Vowels are more than consonants.")

elif num\_consonants > num\_vowels:

print("Consonants are more than vowels.")

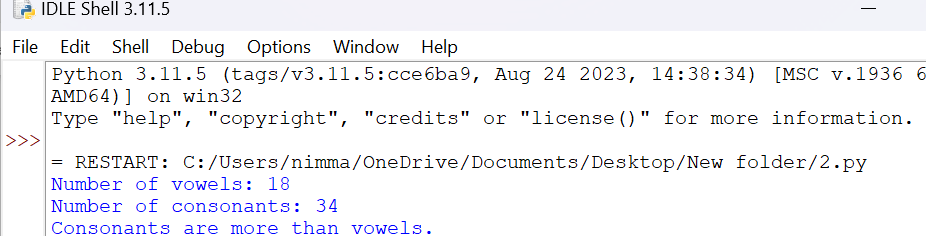
else:

print("Vowels and consonants are equal.")

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

main()

Output:



1. Program to print number of words in a line and number of lines in a para

Program:

def count\_words\_and\_lines(paragraph):

lines = paragraph.splitlines()

num\_lines = len(lines)

num\_words\_per\_line = [len(line.split()) for line in lines]

return num\_words\_per\_line, num\_lines

def main():

paragraph = """This is the first line.

This is the second line with more words.

And this is the third line."""

num\_words\_per\_line, num\_lines = count\_words\_and\_lines(paragraph)

print(f"Number of lines: {num\_lines}")

print("Number of words per line:")

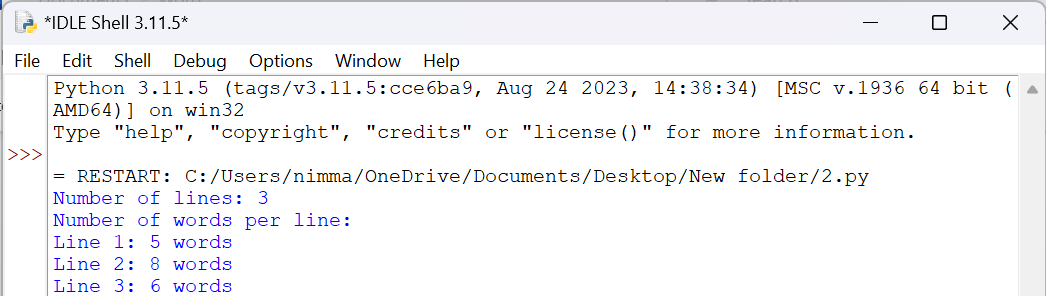
for i, count in enumerate(num\_words\_per\_line, start=1):

print(f"Line {i}: {count} words")

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

main()

Output:



1. Program to find number of sentences starts with &quot;B&quot;

Program:

def count\_sentences\_starting\_with\_b(text):

sentences = text.split('. ')

count = sum(1 for sentence in sentences if sentence.strip().startswith('B') or sentence.strip().startswith('b'))

return count

def main():

text = """Bright skies are ahead.

Be ready for the new challenges.

Sometimes things can get tough.

But staying positive is key."""

count = count\_sentences\_starting\_with\_b(text)

print(f"Number of sentences starting with 'B': {count}")

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

main()

Output:

