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PRACTICAL 2

2	String Manipulation Create a program to analyze a user-provided string. • Count the occurrences of each vowel. • Reverse the string using slicing. • Check if the string is a palindrome. • Use string methods to convert the string to uppercase, lowercase, and title case.

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'''String Manipulation

Create a program to analyze a user-provided string.

● Count the occurrences of each vowel.

● Reverse the string using slicing.

● Check if the string is a palindrome.

● Use string methods to convert the string to uppercase,

lowercase, and title case.'''

```
# Get input from the user
text = input("Enter a string: ")

# Convert to lowercase for consistent processing
lower_text = text.lower()
```

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```
# Count vowels

a_count = lower_text.count('a')

e_count = lower_text.count('e')

i_count = lower_text.count('i')

o_count = lower_text.count('o')

u_count = lower_text.count('u')


print("Vowel counts:")

print("a:", a_count)

print("e:", e_count)

print("i:", i_count)

print("o:", o_count)

print("u:", u_count)


# Reverse the string using slicing

reversed_text = text[::-1]

print("Reversed string:", reversed_text)


# Check if the string is a palindrome (ignoring case)

if lower_text == reversed_text.lower():

    print("The string is a palindrome.")

else:

    print("The string is not a palindrome.")


# Convert and display different cases
```

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```
print("Uppercase:", text.upper())

print("Lowercase:", text.lower())

print("Title case:", text.title())
```