**Lab#10**

**Questions**

Q # 1: Write a program that takes a string as input from the user, uses the strip() function to remove any leading or trailing whitespaces, and then prints the modified string.

Input:

user\_input = input("Enter a string: ")

modified\_string = user\_input.strip()

print("Modified string:")

print(modified\_string)

Output:

Enter a string: Enter a string: Hello, world! \t

Modified string:

Enter a string: Hello, world! \t

Q # 2: Write a program that takes a sentence as input from the user. Use the lstrip()

function to remove leading whitespaces and print the modified sentence.

Input:

user\_sentence = input("Enter a sentence: ")

modified\_sentence = user\_sentence.lstrip()

print("Modified sentence:")

print(modified\_sentence)

Output:

Enter a sentence: Hello I am Annonymous

Modified sentence:

Hello I am Annonymous

Q # 3: Write a program that takes a sentence as input from the user. Use the rstrip()

function to remove trailing whitespaces and print the modified sentence.

Input:

user\_sentence = input("Enter a sentence: ")

modified\_sentence = user\_sentence.rstrip()

print("Modified sentence:")

print(modified\_sentence)

Output:

Enter a sentence: HI How are you

Modified sentence:

HI How are you

Q # 4: Initialize a string variable with a sentence containing whitespaces at various

positions. Write a program that uses the strip() function to remove all whitespaces from the sentence and prints the modified string.

Input:

original\_sentence = " This is an example sentence with spaces. "

cleaned\_sentence = original\_sentence.strip()

print("Cleaned sentence:")

print(cleaned\_sentence)

Output:

Cleaned sentence:

This is an example sentence with spaces.

Q # 5: Write a Python program that takes user input for a sentence containing

underscores. Utilize the lstrip() method to remove these leading characters and display the cleaned sentence.

Input:

user\_input = input("Enter a sentence with underscores: ")

cleaned\_sentence = user\_input.lstrip('\_')

print("Cleaned sentence:")

print(cleaned\_sentence)

**QUESTIONS:**

Q # 1: What is the purpose of the strip() function in Python?

Ans: The strip() function in Python serves the purpose of removing any leading and trailing whitespaces from a given string. Specifically:

Leading whitespaces are spaces, tabs, or newlines at the beginning of the string.

Trailing whitespaces are spaces, tabs, or newlines at the end of the string.

When you apply the strip() method to a string, it returns a new string with these whitespaces removed, while leaving the original string unchanged123. This function is particularly useful for cleaning up user input or handling strings with extra spaces

Q # 2: Can you use the strip() function to remove characters from the middle of a string? Explain.

Ans: The strip() function in Python does not remove characters from the middle of a string. Instead, it is specifically designed to remove leading and trailing whitespaces (spaces, tabs, or newlines) from a given string. Here are the key points:

Leading whitespaces are spaces at the beginning of the string.

Trailing whitespaces are spaces at the end of the string.

When you apply the strip() method to a string, it removes these leading and trailing whitespaces, leaving the characters in the middle of the string unchanged123

Q # 3: How can you use the strip() function to remove a specific character from both ends of a string?

Ans: The strip() function in Python removes leading and trailing whitespaces from a given string.

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