1. What are escape characters, and how do you use them?

To insert characters that are illegal in a string, use an escape character. An escape character is a backslash \ followed by the character you want to insert.

\n,\t,\”,\b,\\,\r

1. What do the escape characters n and t stand for?

\n stands for a newline character, which creates a line break in a string. It is used to move the text to the next line.

\t stands for a tab character, which inserts a horizontal tab. It is used to create consistent spacing or indentation within the text.

1. What is the way to include backslash characters in a string?

To include a backslash character (\) in a string, you can use the escape character itself, which is \\.

1. The string "Howl's Moving Castle" is a correct value. Why isn't the single quote character in the word Howl's not escaped a problem?

The entire string is enclosed in double quotes, which allows the single quote character within the word "Howl's" to be used without any problem.

1. How do you write a string of newlines if you don't want to use the n character?

Using Triple Quotes

Concatenating Strings

Using Raw Strings

6. What are the values of the given expressions?

'Hello, world!'[1]

‘e’

'Hello, world!'[0:5]

‘Hello’

'Hello, world!'[:5]

‘Hello’

'Hello, world!'[3:]

‘lo, world!’

7. What are the values of the following expressions?

'Hello'.upper()

'HELLO'

'Hello'.upper().isupper()

True

'Hello'.upper().lower()

'hello'

8. What are the values of the following expressions?

'Remember, remember, the fifth of July.'.split()

['Remember,', 'remember,', 'the', 'fifth', 'of', 'July.']

'-'.join('There can only one.'.split())

'There-can-only-one.'

9. What are the methods for right-justifying, left-justifying, and centering a string?

Right-Justifying: str.rjust(width, fillchar=' ')

my\_string = "Hello"

justified\_string = my\_string.rjust(10)

print(justified\_string) # Output: " Hello"

Left-Justifying: str.ljust(width, fillchar=' ')

my\_string = "Hello"

justified\_string = my\_string.ljust(10)

print(justified\_string) # Output: "Hello "

Centering: str.center(width, fillchar=' ')

my\_string = "Hello"

centered\_string = my\_string.center(10)

print(centered\_string) # Output: " Hello "

10. What is the best way to remove whitespace characters from the start or end?

The strip() method removes leading and trailing whitespace characters from a string.

Alternatively, if you only want to remove leading whitespace, you can use the lstrip() method, and if you want to remove trailing whitespace, you can use the rstrip() method.