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

Ans-Escape characters are special characters that are used to represent certain characters that are difficult or impossible to include in a string literal. They are represented by a backslash () followed by a character. For example, the escape character \n represents a newline character.

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

Ans-The escape character \n stands for a newline character, and the escape character \t stands for a tab character.

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

Ans-To include a backslash character in a string, you need to use a double backslash (\\). For example, to represent a string with a single backslash, you would write 'This is a backslash: \\'.

**4. 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?**

Ans-The single quote character (') is not a problem in the string "Howl's Moving Castle" because the string is enclosed in double quotes ("). In Python, you can use single quotes to represent a string and include double quotes within it without any issues. Similarly, you can use double quotes to represent a string and include single quotes within it.

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

Ans-If you don't want to use the \n escape character to represent newlines in a string, you can use triple quotes (""" or ''') to create a multiline string.

For example: my\_string = """This is a

multiline string."""

**6. What are the values of the given expressions?**

**'Hello, world!'[1]**

**'Hello, world!'[0:5]**

**'Hello, world!'[:5]**

**'Hello, world!'[3:]**

Ans-The values of the given expressions are:

'e'

'Hello'

'Hello'

'lo, world!'

**7. What are the values of the following expressions?**

**'Hello'.upper()**

**'Hello'.upper().isupper()**

**'Hello'.upper().lower()**

Ans-The values of the following expressions are:

'HELLO'

True

'hello'

**8. What are the values of the following expressions?**

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

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

Ans-The values of the following expressions are:

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

'There-can-only-one.'

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

Ans-he methods for right-justifying, left-justifying, and centering a string are:

rjust(): right-justifies a string by padding it with spaces on the left

ljust(): left-justifies a string by padding it with spaces on the right

center(): centers a string by padding it with spaces on both sides

For example:

string = "hello"

print(string.rjust(10)) # prints " hello"

print(string.ljust(10)) # prints "hello "

print(string.center(10)) # prints " hello "

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

Ans-The best way to remove whitespace characters from the start or end of a string is to use the strip() method.

For example: string = " hello "

print(string.strip()) # prints "hello"