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

Escape characters are special characters used in strings to represent characters that are difficult to type or represent visually, such as newline, tab, or backslash itself. They are represented by a backslash followed by a specific character. For example, `\n` represents a newline and `\t` represents a tab.

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

- `\n` stands for a newline character.

- `\t` stands for a tab character.

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

To include a literal backslash character in a string, you can use a double backslash (`\\`). For example, `"This is a double 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?

The single quote character inside the word "Howl's" is not a problem because the string is enclosed in double quotes. If you use double quotes to define a string, you can include single quotes within the string without escaping them. Similarly, if you define the string using single quotes, you can include double quotes without escaping.

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

You can use triple quotes (`'''` or `"""`) to create multi-line strings without using the `\n` character. For example:

```python

multi\_line\_string = '''

Line 1

Line 2

Line 3

'''

```

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: `rjust()`

- Left-justifying: `ljust()`

- Centering: `center()`

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

The `strip()` method is used to remove whitespace characters from both the start and end of a string. If you want to remove whitespace only from the start, use `lstrip()`, and for the end, use `rstrip()`.