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

Sol: escape characters are special characters that start with backslash and is used to represent certain non-printable or reserved characters in a string.

To use an escape character in a python string, simply place the backslash before the character or sequence of characters you want to escape.

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

Sol: n stand for newline character that is inserting a new line

t stand for tab character that is inserting a horizontal tab

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

Sol: to include a backslash character in a string, you can use a backslash as an escape character before the backslash character you want to include.

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?

Sol: because single quote is enclosed in double quote so it does not create any error and the single quote is not escaped because we did not used the backslash.

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

Sol: If you don’t want to use the “\n” character to represent newlines in a string, you can use multi-line string literals to create a string with multiple lines.

6. What are the values of the given expressions?

'Hello, world!'[1]

'Hello, world!'[0:5]

'Hello, world!'[:5]

'Hello, world!'[3:]

Sol: e

‘Hello’

‘Hello’

lo, world!

7. What are the values of the following expressions?

'Hello'.upper()

'Hello'.upper().isupper()

'Hello'.upper().lower()

Sol: 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())

Sol: There-can-only-one.

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

Sol: right-justifying: **str.rjust()**

left-justifying: **str.ljust()**

centering: **str.center()**

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

Sol: str.rstrip() removes all white spaces at the start and end.

Str.lstrip() removes all white spaces at the start and end.