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

:- escape characters are used to represent characters or sequences of characters that cannot be represented directly in a string or character literal. They are typically denoted by a backslash \ followed by a character or sequence of characters.

common escape characters in Python:

\n - represents a newline character

\t - represents a tab character

\r - represents a carriage return character

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

:- \n - represents a newline character

\t - represents a tab character

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

:- We can use the escape character \ followed by another 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 in the word "Howl's" does not need to be escaped because it is enclosed in double quotes.

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

:- We can use triple quotes to create a multi-line string. A multi-line string is a string that spans multiple lines and preserves all white space, including line breaks.

eg. “”” This is an example of Multi-line string.

Which do not need n escape character for newline.”””

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()

:-False

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?

:- str.ljust(), str.rjust(), and str.center() methods to left-justify, right-justify, and center a string, respectively.

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

:- str.strip() method to remove whitespace characters from the start and end of a string.