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

Escape characters are special characters in a string that are preceded by a backslash (\). They are used to represent characters that are difficult or impossible to type directly into code or characters that have special meanings within strings.

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

\n stands for a newline, and \t stands for a tab.

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

By using 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 in the string "Howl's Moving Castle" isn't escaped because the string is enclosed in double quotes ("). Python allows using single quotes inside double quotes and vice versa without escaping.

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

Using the triple single quotes or triple double quotes to enclose multiple lines of strings.

 ''' 

Line 1

Line 2

.......

Line n

'''

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)

Left-justifying: str.ljust(width)

Centering: str.center(width)

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

by using the strip() method.