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

Answer: Escape characters are used to represent white space characters in python,

\n is to signify a new line and \t signifies empty space or a tab and \r is carriage return

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

Answer: n → new line

       t → tab

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

Answer: The \\ escape character represent a backslash character.

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?

Answer: The single quotes don't show an error as the entire string is enclosed inside double quotes.

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

Answer: You can write a string value which is multiline, or in other words multiline string allows displaying the string in new lines without using the n character.

6. What are the values of the given expressions?

'Hello, world!'[1]

'Hello, world!'[0:5]

'Hello, world!'[:5]

'Hello, world!'[3:]

Answer: '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'.upper().isupper()

'Hello'.upper().lower()

Answer: '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()

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

Answer: '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?

Answer: The rjust(), ljust(), and center() string methods, respectively

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

Answer: The lstrip() and rstrip() functions are used to remove whitespace from the left and right ends of a string, respectively.