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

ANSWER: Escape characters represent characters in string values that would otherwise be difficult or impossible to type into code.

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

ANSWER: \n is a newline escape character while \t is a tab escape character.

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

ANSWER: The \\ escape character will represent a backslash character in a string.

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 quote in Howl's is fine because we've used double quotes to mark the beginning and end of the string.

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

ANSWER: Multiline strings allow us to use newlines in strings without the \n escape character.

6. What are the values of the given expressions?

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?

ANSWER:

'Hello'.upper() : ‘HELLO’

'Hello'.upper().isupper() : True

'Hello'.upper().lower() : hello

8. What are the values of the following expressions?

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() is used for right-justifying, ljust() is used for left-justifying, and center() is used for centring a string.

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

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