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

* Escape characters are special characters in a string that have a specific meaning and cannot be directly represented. They are represented by a backslash () followed by a character or a sequence of characters.
* For example, the newline character (\n) is an escape character that is used to represent a new line in a string.

1. print("Hello\nWorld!")

* For example, the tab character (\t), which is used to represent a horizontal tab in a string.

1. print("Name:\tJohn")

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

* n = new line
* t = horizontal tab

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

* We can use a double backslash **\\** in the string to represent a single backslash character.
* print("This is a backslash: \\") #output: This is a 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 is not a problem because the string 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 multi-line string literal syntax with triple quotes. For example:

multiline\_string = """This string

spans multiple

lines."""

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?

* The **rjust()**, **ljust()**, and **center()** string methods can be used to right-justify, left-justify, and center a string

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

* **.strip()** method to remove whitespace and characters from the beginning and the end of a string.