

Assignment 6

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

Answer:

In Python strings, the backslash "\" is a special character, also called the "escape" character. It is used in representing certain whitespace characters: "\t" is a tab, "\n" is a newline, and "\r" is a carriage return. Conversely, prefixing a special character with "\" turns it into an ordinary character.

2. What do the escape characters' n and t stand for?

Answer:

"\t" stands for tab, "\n" stands for newline

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

Answer:

Using the syntax "\\" within the string literal we can represent a single backslash.

4. The string value "Howl's Moving Castle" is a valid string. Why isn't it a problem that the single quote character in the word Howl's isn't escaped?

Answer:

The single quote in Howl's is fine because here 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 to use newlines in strings without the `\n` escape character.

6. What do the following expressions evaluate to?

`'Hello world!'[1]`

`'Hello world!'[0:5]`

`'Hello world!':5]`

`'Hello world!'[3:]`

Answer:

The expressions evaluate to the following:

`'e'`

`'Hello'`

`'Hello'`

`'lo world!'`

7. What are the values of the following expressions?

`'Hello'.upper()`

`'Hello'.upper().isupper()`

`'Hello'.upper().lower()`

Answer:

The expressions evaluate to the following:

`'HELLO'`

`True`

`'hello'`

8. What are the values of the following expressions?

`'Remember, remember, the fifth of November.'.split()`

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

Answer:

The expressions evaluate to the following:

`['Remember,', 'remember,', 'the', 'fifth', 'of', 'November.']`

`'There-can-be-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()` methods remove whitespace from the left and right ends of a string, respectively.