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. 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.

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

Answer: $\$ is a newline; $\$ t is a tab.

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

Answer: The \ escape character will 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 quote in Howl's is fine because we have 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 you to use newlines in strings without the \n escape character.

6. What are the values of the given expressions?

'Hello, world!'[1]

'Hello, world!'[0:5]

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

'Hello, world!'[3:]

Answer:

7. What are the values of the following expressions?

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

'Hello'.upper().isupper()

'Hello'.upper().lower()

Answer:

```
In [5]: 1 'Hello'.upper()

click to scroll output; double click to hide

In [6]: 1 'Hello'.upper().isupper()

Out[6]: True

In [7]: 1 'Hello'.upper().lower()

Out[7]: 'hello'
```

8. What are the values of the following expressions?

'Remember, remember, the fifth of July.'.split()

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

Answer:

```
In [1]: 1 'Remember, remember, the fifth of July.'.split()
Out[1]: ['Remember,', 'remember,', 'the', 'fifth', 'of', 'July.']
In [2]: 1 '-'.join('There can only one.'.split())
Out[2]: '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 Istrip() and rstrip() methods remove whitespace from the left and right ends of a string, respectively.