

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

Ans: Escape characters are special characters that are used to represent certain actions or characters that cannot be directly represented or printed as is within a string. They are preceded by a backslash \ and are used to escape their usual interpretation or to introduce special characters in strings.

Here are a few commonly used escape characters in Python:

\n: Represents a newline character. It is used to start a new line in a string.

\t: Represents a tab character. It is used to insert a horizontal tab in a string.

\\: Represents a backslash character. It is used to insert a literal backslash in a string.

\\" or \': Represents a double quotation mark or a single quotation mark, respectively. They are used to include quotation marks within a string without terminating it.

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

Ans:

\n: Represents a newline character. It is used to start a new line in a string.

\t: Represents a tab character. It is used to insert a horizontal tab in a string.

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

Ans: \\: Represents a backslash character. It is used to insert a literal backslash 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?

Ans: It is not an issue because single quotes can be incorporated between the double quotes.

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

Ans:

```
print("""This is you.  
This is me""")
```

""" , """ can be used to do this job.

6. What are the values of the given expressions?

```
'Hello, world!'[1]
```

Ans:

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

Ans: 'Hello'

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

Ans: 'Hello'

```
'Hello, world!'[3:]
```

Ans: 'lo, world!'

7. What are the values of the following expressions?

`'Hello'.upper()`

Ans: `'HELLO'`

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

Ans: `True`

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

Ans: `'hello'`

8. What are the values of the following expressions?

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

Ans: `['Remember,', 'remember,', 'the', 'fifth', 'of', 'July.']`

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

Ans: `'There-can-only-one.'`

9. What are the methods for right-justifying, left-justifying, and centering a string?

Ans: `str.rjust(width, fillchar)`, Right Justifying

`str.ljust(width, fillchar)`, Left Justifying

`str.center(width, fillchar)`, Centering

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

Ans: The best way to do it is to use the `strip()` method. We can further use `lstrip()` or `rstrip()` to be specific too.