

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: Create a newline.

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

Answer: Actual backslash in a string or regex, can use `'\\'` for 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?

Answer: Reason `'` is considered as the end of the string and rest part is not the part of a string.

Solution: `print('It\'s python')`

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

Answer: `print("Hello there!", end = '\n')`

6. What are the values of the given expressions?

'Hello, world!'[1]

'Hello, world!'[0:5]

'Hello, world!':['5]

'Hello, world!'[3:]

Answer:

'e'

'hello'

'hello'

'lo, world!'

7. What are the values of the following expressions?

'Hello'.upper()

'Hello'.upper().isupper()

'Hello'.upper().lower()

Answer:

'HELLO'

True

False

8. What are the values of the following expressions?

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

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

Answer:

['Remember,', 'remember,', 'the', 'fifth', 'of', 'July.']

'There-can-only-one.'

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

Answer:

```
print('Hello world'.rjust(40,'*'))  
  
print('Hello world'.ljust(40,'-'))  
  
print('Hello world'.center(40,'$'))
```

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

Answer: Use `strip()` to remove whitespace characters from the start or end.

Example: `print(" Ineuron ".strip())`
