

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

Escape characters represent characters in string values that would otherwise be difficult or impossible to type into code. By using backslash followed by the character required to insert in the code. Ex: `\'`, `\\`, `\n`, `\r` etc.

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

`\n` stands for new line.

`\t` stands for tab.

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

Using `\\` escape character we can use 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?

Using single quote inside a double quoted string won't escape from the string.

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

By using `"""` three quotes at the beginning
and three quotes at the end `"""`

(Multiline strings) allow to use newlines in strings without the `\n` escape character.

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!'`

```
In [13]: 1 'Hello, world!'[1]
```

```
Out[13]: 'e'
```

```
In [14]: 1 'Hello, world!'[0:5]
```

```
Out[14]: 'Hello'
```

```
In [15]: 1 'Hello, world!':[5]
```

```
Out[15]: 'Hello'
```

```
In [16]: 1 'Hello, world!':[3:]
```

```
Out[16]: '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.'

```
In [20]: 1 'Remember, remember, the fifth of July.'.split()
```

```
Out[20]: ['Remember,', 'remember,', 'the', 'fifth', 'of', 'July.']
```

```
In [21]: 1 '-'.join('There can only one.'.split())
```

```
Out[21]: 'There-can-only-one.'
```

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

rjust(), ljust(), and center() are the string methods respectively.

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

By using strip() methods we can remove whitespace characters.