

## Python Assignment 06

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

#### Answer:

Escape Characters are used to represent characters that are impossible to include directly in a string.

Example: `\n`, `\t`, `\\`

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

#### Answer:

Escape character `\n` - represents new line character, which moves the cursor to the next line.

`\t` - represents a tab character, which add horizontal whitespace.

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

#### Answer:

`\\` is used to add backslash characters 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?

#### Answer:

Here `"Howl's Moving Castle"` is enclosed in double quotes so it escapes the problem, whereas when we try to run `'Howl's Moving Castle'` then it causes an error then we need to use escape characters `"\'"` to escape the single quote so we print as `print("Howl\'s Moving Castle")`

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

**Answer:**

We use multiline string enclosed in `'''` or `"""`.

Example:

```
String = """ This is a multiline string
```

```
Full Stack Data Science Course
```

```
Python Assignment Number 06. """
```

Output:

```
This is a multiline string
```

```
Full Stack Data Science Course
```

```
Python Assignment Number 06.
```

**6. What are the values of the given expressions?**

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

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

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

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

**Answer:**

Value of `'Hello, world!'[1]` - e

Value of `'Hello, world!'[0:5]` - Hello

Value of `'Hello, world!':5]` - Hello

Value of `'Hello, world!'[3:]` - lo, world!

**7. What are the values of the following expressions?**

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

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

**'Hello'.upper().lower()**

**Answer:**

Value of 'Hello'.upper() - HELLO

Value of 'Hello'.upper().isupper() - True

Value of 'Hello'.upper().lower() - hello

**8. What are the values of the following expressions?**

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

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

**Answer:**

Value of 'Remember, remember, the fifth of July.'.split() - ['Remember,', 'remember,', 'the', 'fifth', 'of', 'July.']

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

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

**Answer:**

Methods to right-justifying, left-justifying, centring a string are rjust(), ljust(), center() respectively.

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

**Answer:**

Methods to remove whitespace characters are lstrip() and rstrip(), lstrip() remove whitespace characters from left and rstrip() remove whitespace characters from right.