

Assignment 6 Solutions

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

ANS: Escape characters represent characters in string values that would otherwise be difficult or impossible to type into code. we can use the backslash character to escape a single character or symbol.

example: `\t`, `\n`

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

ANS: `\n` is a newline, `\t` is a tab

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

ANS: The `\` escape character will represent the backslash character 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: The string "Howl's Moving Castle" escaped the problem because it is wrapped inside double quotes. if its wrapped inside single quotes then we have to use escape character `'` to show single quote in the final output

```
'Howl's Moving Castle' -> 'Howl's Moving Castle'
```

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

ANS: Multiline string allow you to use newlines in string without the `\n` escape character

In [2]:

```
1 # Example:
2 a = '''iNeuron 6 Assignment. Awesome Data Science Course'''
3 print(a)
```

```
iNeuron 6 Assignment. Awesome Data Science Course
```

6. What are the values of the given expressions?

```
'Hello, world!'[1]
'Hello, world!'[0:5]
'Hello, world!':5]
'Hello, world!'[3:]
```

ANS: The values for the given expressions are:

```
'Hello, world!'[1] -> 'e'
'Hello, world!'[0:5] -> 'Hello'
'Hello, world!':5] -> 'Hello'
'Hello, world!'[3:] -> 'lo, world!'
```

7.What are the values of the following expressions ?

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

Ans: The values for the given expressions are:

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

ANS: The values for the given expressions are:

```
'Remember, remember, the fifth of July.'.split() -> ['Remember,', 'remember,', 'the', 'fifith',
'of', 'July. ']
-''.join('There can only one'.split()) -> 'There-can-only-one'
```

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

ANS: The `rjust()`, `ljust()`, `center()` string methods, respectively

```
str.ljust(s, width[, fillchar])
str.rjust(s, width[, fillchar])
str.center(s, width[, fillchar])
```

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

ANS: The `lstrip()` and `rstrip()` methods remove whitesapce characters from the left and right ends of a string respectively