**Assignment 1**

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

Ans: Escape characters are special characters in a string that are preceded by a backslash \. They are used to represent characters that are impossible or difficult to type directly, such as tab (\t), newline (\n), or to include characters with special meaning in strings like double quotes (\") or single quotes (\').

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

Ans: The escape characters t and n stand for:

\t: Represents a tab character

\n: Represents a newline character.

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

Ans: To include a backslash character in a string, we need to use a double backslash (\\). For example, "It is a 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?

Ans: In the string "Howl's Moving Castle," the single quote character in the word "Howl's" is not a problem because the string is enclosed in double quotes. If the string were enclosed in single quotes, we would need to escape the single quote within the string using a backslash: 'Howl\'s Moving Castle'.

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

Ans: To write a string of newlines without using the \n character, we can use triple-quoted strings.

6. What are the values of the given expressions?

'Hello, world!'[1]: Returns the character at index 1, that is 'e'.

'Hello, world!'[0:5]: Returns the substring from index 0 to 4, which is 'Hello'.

'Hello, world!'[:5]: Returns the substring from the beginning to index 4, which is 'Hello'.

'Hello, world!'[3:]: Returns the substring from index 3 to the end, which is 'lo, world!'.

7. What are the values of the following expressions?

'Hello'.upper(): Returns 'HELLO'.

'Hello'.upper().isupper(): Returns True because the entire string is in uppercase.

'Hello'.upper().lower(): Returns 'hello' after converting to lowercase.

8. What are the values of the following expressions?

'Remember, remember, the fifth of July.'.split(): Splits the string into a list of words.

'-'.join('There can only one.'.split()): Joins the words with a hyphen ('-').

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

Ans: Right-justifying: str.rjust(width)

Left-justifying: str.ljust(width)

Centering: str.center(width)

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

Ans: The best way to remove whitespace characters from the start or end of a string is to use the strip() method.

**Code for Fun:**









