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

* An escape character is a sequence of characters that, when used inside a character or string, does not represent itself but is converted into another character or series of characters that may be difficult or impossible to express directly, like newline (\n), tab (\t) etc.

For Example,

If we want to print who's this in python and for that if we will write the code:

print('Who's this?')

This will give us an error because the interpreter needs clarification. It can't find the starting position of a single quote since it occurred three times. So in such cases we need this special sequence of the character called escape character to run this code.

To remove this syntax error:

print('Who\'s this?')

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

* \n is stands for the new line and the \t is stands for tab.

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

* The \\ escape character will represent a backslash character.

1. 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?

* As we have used the doubled quotes at the beginning of the string so this string doesn’t give us any error.

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

* We can print strings without adding a new line with end = <character>, which <character> is the character that will be used to separate the lines.

6. What are the values of the given expressions?

'Hello, world!'[1]

'Hello, world!'[0:5]

'Hello, world!'[:5]

'Hello, world!'[3:]

* ‘e’
* ‘Hello,’
* ‘Hello,’
* ‘lo, world!'

7. What are the values of the following expressions?

'Hello'.upper()

'Hello'.upper().isupper()

'Hello'.upper().lower()

* HELLO
* True
* hello

8. What are the values of the following expressions?

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

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

* ['Remember,', 'remember,', 'the', 'fifth', 'of', 'November.']
* ['There -can -only -one.']

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

* rjust(),ljust(),center() are the methods of right-justifyig, left – justifying and the center of a string.

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

* Lstrip() and rstrip() are the methods that are helpful to remove the whitespace the from the start or end.