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

Ans. Escape characters are special characters that are prefixed by a backslash(\).they are special characters that are included in strings to control and include some special behaviours mainly to format the strings in some special way which are otherwise very difficult to perform or include directly with strings.

They are preceded by a backslash \ and the compiler or interpreter interpretes these special characters and accordingly helps in formatting.

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

Ans.

n character prefixed by \ stands for newline character which is used to start a new line.

t character prefixed by \ stands for tab which is used to insert a horizontal tab.

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

Ans.

\\ is the way to include a iteral 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. it is the correct way because there is single quotes within double quotes which is completely valid and there could have been double quotes within simple quotes which would also have been completely valid.

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

Ans. usage of triple quotes (‘’’’’’) or os.linesep or ascii escape sequence \x0A is recommended.

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!’

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.’

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

Ans.

.rjust(width) – adds space to left side of string with desired width.

.ljust(width) – adds space to right side of string with desired width.

.center(width) -- adds space to right and left side of string with desired width .

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

Ans. .strip() is the best way. .rstrip() and .lstrip() together also serves the purpose. Else regular expressions can also be used.