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

Ans: To insert illegal characters in string we use escape characters in python. Escape characters are written backslash \ followed by character want to insert.

|  |  |
| --- | --- |
| **Code** | **Result** |
| \' | Single Quote |
| \\ | Backslash |
| \n | New Line |
| \r | Carriage Return |
| \t | Tab |
| \b | Backspace |
| \f | Form Feed |
| \ooo | Octal value |
| \xhh | Hex value |

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

Ans: n for new line and t for tab

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

Ans: \\

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: Here we used double quote before beginning and end of the string to distinguish it single quote.

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

Ans: to write newlines without using n character, write every new string in new line with print operator enclosed in brackets and single quotes or double quotes at start and at end.

6. What are the values of the given expressions?

'Hello, world!'[1]

'Hello, world!'[0:5]

'Hello, world!'[:5]

'Hello, world!'[3:]

Ans:

'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: ‘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: ‘Remember, remember, the fifth of July.’split() -> [‘Remember,’, ’remember,’, ’the’, ’fifth’, ‘of’, ‘July.’]

‘-‘.join(‘There can only one.split()) -> It will show invalid character error due to only one quote is there for string in bracket.

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

Ans: to left justify a string -> string.ljust(length, extra character to fill length)

To right justify a string -> string.rjust(length, extra character to fill length)

To centering a string -> string.center(length, extra character to fill length)

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

Ans: string.strip()