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

Solution1:-

In Python strings, the backslash "\" is a special character, also called the "escape" character. It is used in representing certain whitespace characters: "\t" is a tab, "\n" is a newline, and "\r" is a carriage return.

print 'apple\torange'

output:

apple orange

print 'apple\norange'

output:

apple

orange

Conversely, prefixing a special character with "\" turns it into an ordinary character. This is called "escaping". For example, "\'" is the single quote character. 'It\'s raining' therefore is a valid string and equivalent to "It's raining". Likewise, '"' can be escaped: "\"hello\"" is a string begins and ends with the literal double quote character. Finally, "\" can be used to escape itself: "\\" is the literal backslash character.

print('It\'s raining')

output:

It's raining

'It\'s raining' # Same string specified differently

Output:

"It's raining"

print("\"hello\"")

Output:

"hello"

print('"\\" is the backslash')

output:

"\" is the backslash

print('\" is the backslash')

Output: " is the backslash

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

Solution2:-

"\t" is a tab, "\n" is a newline

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

Solution3:-

print('"\\" is the backslash')

output:

"\" is the backslash

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?

Solution4:

The single quote in Howl's is fine because you’ve used double quotes to mark the beginning and end of the string.

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

Solution5:-

import os

keyword = 'physical'+ os.linesep + 'distancing'

print(keyword)

output:

physical

distancing

or

print("a")

print("b")

print("c")

output:

a

b

c

6. What are the values of the given expressions?

'Hello, world!'[1]

'Hello, world!'[0:5]

'Hello, world!'[:5]

'Hello, world!'[3:]

Solution6:-e,

'Hello'

'Hello'

'lo, world!'

7. What are the values of the following expressions?

'Hello'.upper()

'Hello'.upper().isupper()

'Hello'.upper().lower()

Solution7:-

'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())

Solution8:-

['Remember,', 'remember,', 'the', 'fifth', 'of', 'July.']

'There-can-only-one.'

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

Solution9:-

For right-justifying:-

str="my name is khan"

print (str.rjust(40, '-'))

output:

-------------------------my name is khan

For left- justifying:-

str="my name is khan"

print (str.ljust(40, '#'))

output:

my name is khan#########################

for center:-

str="my name is khan"

print (str.center(40, '@'))

output:-

@@@@@@@@@@@@my name is khan@@@@@@@@@@@@@

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

Solution10:-

a=" hello there! "

a.strip()

output:

'hello there!'