

In [ ]: 1. What are escape characters, and how do you use them?

In [ ]: 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

In [2]: print("hi\\")

hi"

In [20]: print("myw \rnaq")

naq

In [ ]: 2. What do the escape characters n and t stand for?

In [ ]: "\t" is a tab, "\n" is a newline

In [ ]: 3. What is the way to include backslash characters in a string?

In [23]: print('its a back slash \ in a line')

its a back slash \ in a line

In [ ]: 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?

In [4]: print("Howl's Moving Castle")

Howl's Moving Castle

In [ ]: The single quote in Howl's is fine because you've used double quotes to mark the beginning and end of the string. Likewise we can use double quotes with single quotes.

In [3]: print('this is "Dog"')

this is "Dog"

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

In [5]: print("printing something in new line",end = '\n')  
print("newline")

printing something in new line  
newline

In [ ]: 6. What are the values of the given expressions?

```
'Hello, world!'[1]
'Hello, world!'[0:5]
'Hello, world!':5]
'Hello, world!'[3:]
```

In [6]: 'Hello, world!'[1]

Out[6]: 'e'

In [7]: 'Hello, world!'[0:5]

Out[7]: 'Hello'

In [8]: 'Hello, world!':[:5]

Out[8]: 'Hello'

In [9]: 'Hello, world!':[3:]

Out[9]: 'lo, world!'

In [ ]: 7. What are the values of the following expressions?  
'Hello'.upper() 'Hello'.upper().isupper() 'Hello'.upper().lower()

In [10]: 'Hello'.upper()

Out[10]: 'HELLO'

In [11]: 'Hello'.upper().isupper()

Out[11]: True

In [12]: 'Hello'.upper().lower()

Out[12]: 'hello'

In [ ]: 8. What are the values of the following expressions?  
'Remember, remember, the fifth of July.'.split() '-'.join('There can only one')

In [13]: 'Remember, remember, the fifth of July.'.split()

Out[13]: ['Remember,', 'remember,', 'the', 'fifth', 'of', 'July.']

In [16]: '-'.join('There can only one.'.split())

Out[16]: 'There-can-only-one.'

In [ ]: 9. What are the methods for right-justifying, left-justifying, and centering

In [17]: # left justified  
str = "Shiva"  
str.ljust(10, "-")

Out[17]: 'Shiva-----'

In [18]: # right justified  
str = "My name is"  
str.rjust(40, '\*')

Out[18]: '\*\*\*\*\*My name is'

In [19]: # center justified  
str = "My name is"  
str.center(40, '\*')

Out[19]: '\*\*\*\*\*My name is\*\*\*\*\*'

In [ ]: 10. What is the best way to remove whitespace characters from the start or end of a string?

```
In [23]: st="  ajeet  "  
st.rstrip()
```

Out[23]: ' ajeet'

```
In [24]: st.lstrip()
```

Out[24]: 'ajeet '

```
In [26]: st.strip()
```

Out[26]: 'ajeet'

In [ ]: