Assignment - 6

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

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

\n for new line

\t for tab

3. What is the way to include backslash characters 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?

```
In [7]: string = "Howl's Moving Castle"
    string # the single quote character in the word won't throw an error

Out[7]: "Howl's Moving Castle"

In [8]: string = 'Howl's Moving Castle'
    string # Error # Single quote in single quotes throw error

    Cell In[8], line 1
        string = 'Howl's Moving Castle'
    SyntaxError: unterminated string literal (detected at line 1)
```

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

Using empty braces

```
In [11]: print("Assignment")
    print()  #EMPTY Braces
    print("6")

Assignment
6
```

6. What are the values of the given expressions?

```
'Hello, world!'[1]
```

'Hello, world!'[0:5]

'Hello, world!'[:5]

'Hello, world!'[3:]

INDEX in square boxes

```
In [12]: 'Hello, world!'[1]
Out[12]: 'e'
In [13]: 'Hello, world!'[0:5]
Out[13]: 'Hello'
In [14]: 'Hello, world!'[:5]
Out[14]: 'Hello'
In [15]: 'Hello, world!'[3:]
Out[15]: 'lo, world!'
```

7. What are the values of the following expressions?

'Hello'.upper()

```
'Hello'.upper().isupper()
```

'Hello'.upper().lower()

```
In [16]: 'Hello'.upper()
Out[16]: 'HELLO'
In [17]: 'Hello'.upper().isupper()
Out[17]: True
In [18]: 'Hello'.upper().lower()
Out[18]: 'hello'
```

8. What are the values of the following expressions?

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

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

```
In [19]: 'Remember, remember, the fifth of July.'.split()
Out[19]: ['Remember,', 'remember,', 'the', 'fifth', 'of', 'July.']
In [20]: '-'.join('There can only one.'.split())
Out[20]: 'There-can-only-one.'
```

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

```
In [22]: string = "India is my country"
         print ("The original string is : \n", string, "\n")
         print ("The left aligned string is:")
         print (string.ljust(40))
         print ()
         print ("The left aligned string with char :")
         print (string.ljust(40, "#"))
         print ("The right aligned string is:")
         print (string.ljust(40))
         print ()
         print ("The right aligned string with char :")
         print (string.rjust(40, "#"))
         print ()
         print ("The center aligned string is:")
         print (string.center(40), "\n")
         print ()
         print ("The center aligned string with char:")
         print (string.center(40, "#"))
```

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

```
In [23]: # .strip is the best way

mystring = ' Hola

n = mystring.strip()

# before strip
print(mystring)
print(len(mystring))

# after strip
print(n)
print(len(n))
Hola
```

29 Hola