**ASSIGNMENT 6**

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

**Answer 1**

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.

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

**Answer 2**

**escape characters n :**

"\n" is a newline . Example :

print ('apple\norange\npear')

**escape characters t :**

"\t" is a tab. Example :

print ('apple\torange\tpear')

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

**Answer 3.**

As we know ‘ \ ‘ is escape / backslash character used in string as

print ('apple\norange\npear')

print ('apple\torange\tpear')

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**Question 4. The string "Howl's Moving Castle" is the correct value. Why isn't the single quote character in the word Howl's not escaped a problem?**

**Answer 4.**

Having the mentioned string in double quote gives output, there is no syntax error. But if we use a single quote, then there will be syntax error saying that invalid syntax. In single quote , the mentioned statement is not properly closed by single quote and hence it is avoided.

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

**Answer 5.**

If I don’t want to use \n character, then I will write each string at newline one after another.

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**Question 6. What are the values of the given expressions?**

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

**'Hello, world!'[0:5]**

**'Hello, world!'[:5]**

**'Hello, world!'[3:]**

**Answer 6.**

'Hello, world!'[1] : ‘e’

'Hello, world!'[0:5] : 'Hello’

'Hello, world!'[:5] : 'Hello’

'Hello, world!'[3:] : ‘lo, world!'

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**Question 7. What are the values of the following expressions?**

**'Hello'.upper()**

**'Hello'.upper().isupper()**

**'Hello'.upper().lower()**

**Answer 7**

'Hello'.upper() : ‘ HELLO’

'Hello'.upper().isupper() : TRUE

'Hello'.upper().lower() : ‘ hello ’

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**Question 8. What are the values of the following expressions?**

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

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

**Answer 8**

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

[ ‘Remember,’ , ’ remember,’ , ‘the’ , ‘fifth’ , ‘of’ , ‘July.’ ]

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

[ 'There-can-only-one.' ]

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

**Answer 9.**

There are three methods for aligning string and adding user specified padding instead of blank space.

**1). Left Justifying :**  string.ljust(len, fillchr)

**Example :**

string = " I am python student "

string.ljust(40, '#')

**Output :**

‘I am python student ###################’

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**2). Right Justifying :** string.rjust(len, fillchr )

**Example :**

string = " I am python student "

string.rjust(40, '#')

**Output :**

‘################### I am python student’

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**3). Center Justifying :** string.center( len , fillchr)

**Example :**

string = " I am python student "

string.center(40, '#')

**Output :**

‘######### I am python student ##########’

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

**Answer 10.**

**.strip() method to remove whitespace and characters from the beginning and the end of a string.**

**Example :**

string = " I am python student "

string.strip()

**Output :**

‘I am python student’

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