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

Ans. Escape characters are special characters in Python that are used to represent characters that are difficult or impossible to type directly in a string or character literal. They are preceded by a backslash (\) to indicate that the following character should be treated as a special character and not as a regular character.

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

Ans . \n is used for new line and \t is used for tab

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

Ans. To use backslash in string we can use ‘\\’.

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. Because here string is in double quotes and so single quote is not escape character problem.

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

Ans. We can use triple quotes string. For example :-

“””this is first line

This is second line

This is third line”””

6. What are the values of the given expressions?

'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

'Hello'.upper().isupper()

= True

'Hello'.upper().lower()

= hello

8. What are the values of the following expressions?

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

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

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

=There-can-only-one.

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

Ans. In Python, you can use the following string methods to justify and center a string:

ljust(): left-justifies a string by adding whitespace characters to the right until it reaches a specified width.

rjust(): right-justifies a string by adding whitespace characters to the left until it reaches a specified width.

center(): centers a string by adding whitespace characters to both sides until it reaches a specified width.

For example : -

text = "hello"

width = 10

# Left-justify the string

left\_justified = text.ljust(width)

print(left\_justified)

# Right-justify the string

right\_justified = text.rjust(width)

print(right\_justified)

# Center the string

centered = text.center(width)

print(centered)

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

Ans. In Python, you can use the strip() method to remove whitespace characters from the start and end of a string. For example

text = " Hello, world! "

clean\_text = text.strip()

print(clean\_text)

= Hello, world!