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

ANS: To encode a syntactic entity, such as device commands or special data, which cannot be directly represented by the alphabet.

To represent characters, referred to as character quoting, which cannot be typed in the current context, or would have an undesired interpretation. In this case, an escape sequence is a digraphconsisting of an escape character itself and a "quoted" character.

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

ANS: It is used in representing certain whitespace characters:**“t” is a tab, “n” is a newline, and “r” is a carriage return**.

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

ANS: To insert characters that are illegal in a string, use an escape character. An escape character is a backslash \ followed by the character you want to insert.

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

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

Ans: With triple-quoted string literals, you can use actual newlines instead of \n

6. What are the values of the given expressions?

'Hello, world!'[1]

'Hello, world!'[0:5]

'Hello, world!'[:5]

'Hello, world!'[3:]

'Hello, world!'[1] Ans: 'e'

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

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

7. What are the values of the following expressions?

'Hello'.upper()

'Hello'.upper().isupper()

'Hello'.upper().lower()

'Hello'.upper() Ans: 'HELLO'

'Hello'.upper().isupper() Ans: True

'Hello'.upper().lower() Ans: 'hello'

8. What are the values of the following expressions?

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

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

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

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

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

Ans: rjust(), ljust(), Center()

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

Ans: trimStart() or trimEnd()