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

**Ans:** The backslash ( \ ) escape character typically provides two ways to include double quotes inside a string literal, either by modifying the meaning of the double quote character embedded in the string ( \" becomes " ), or by modifying the meaning of a sequence of characters including the hexadecimal value of a double quote. Use the backslash character to escape a single character or symbol. Only the character immediately following the backslash is escaped. Note: If you use braces to escape an individual character within a word, the character is escaped, but the word is broken into three tokens.

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

**Ans:** 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. Conversely, prefixing a special character with "\" turns it into an ordinary character.

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

**Ans:** To include a backslash character itself, you need two backslashes or use the @ verbatim string: var s = "\\Tasks"; // or var s = @"\Tasks"; Read the MSDN documentation/C# Specification which discusses the characters that are escaped using the backslash character and the use of the verbatim string literal.

1. 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 we have used double quotes to mark the beginning and end of the string.

1. How do you write a string of newlines if you do not want to use the n character?

**Ans:** Multiline strings allow you to use newlines in strings without the \n escape character.

1. What are the values of the given expressions?

'Hello, world!'[1]

'Hello, world!'[0:5]

'Hello, world!'[:5]

'Hello, world!'[3:]

**Ans:** The expressions evaluate to the following:  
  
'e'  
  
'Hello'  
  
'Hello'  
  
'lo world!

1. What are the values of the following expressions?

'Hello'.upper()

'Hello'.upper().isupper()

'Hello'.upper().lower()

**Ans:** The expressions evaluate to the following:  
  
'HELLO'  
  
True  
  
'hello'

1. What are the values of the following expressions?

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

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

**Ans:** The expressions evaluate to the following:  
  
['Remember,', 'remember,', 'the', 'fifth', 'of', 'November.']  
  
'There-can-be-only-one.

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

**Ans:** The rjust(), ljust(), and center() string methods, respectively.

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

**Ans:** The lstrip() and rstrip() methods remove whitespace from the left and right ends of a string, respectively.