**String:-**

*The string is a* ***collection of alphabets, words, or other characters****. It is one of the primitive data structures and are the building blocks for data manipulation.*

**Assign String to a Variable**

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| --- |
| Single Word |
| a = "Hello"  print(a) |

|  |
| --- |
| Multi-line String(Example 01) |
| a = """We invite you to attend the Best IT Course at our institute. We are happy to guide you step by step regarding this job-oriented course and the job placement benefits after completing the course.""" print(a) |

|  |
| --- |
| Multi-line String(Example 02) |
| a = ''' We invite you to attend the Best IT Course at our institute. We are happy to guide you step by step regarding this job-oriented course and the job placement benefits after completing the course.''' print(a) |

**Strings are Arrays**

In Python, a string is a sequence of characters enclosed within either single quotes (') or double quotes (").

|  |  |  |
| --- | --- | --- |
| Slicing in string | Looping through string | Check the length of the string |
|  |  |  |

|  |  |
| --- | --- |
| Check specific text(I.e. free) in the string | |
|  |  |

|  |  |
| --- | --- |
| Check if "expensive" is NOT present in the following text: | |
|  |  |

Escape Character

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Operation | Code | Example | Result | Remarks |
| Single Quote | \' | txt = 'It\'s alright.' | It's alright. |  |
| Backslash | \\ | txt = "Hello\\World!" | "Hello\World!" | This will insert one \ (backslash). |
| New Line | \n | txt = "Hello\nWorld!" | Hello  World! |  |
| Carriage Return | \r | txt = "Hello\rWorld!" | Hello  World! |  |
| Tab | \t | txt = "Hello\tWorld!" | Hello World! |  |
| Backspace | \b | txt = "Hello \bWorld!" | HelloWorld! | #This example  erases one character  (backspace): |
| Octal value | \ooo | txt = "\110\145\154\154\157" | Hello | #A backslash followed by three integers will result in an octal value: |
| Hex value | \xhh | txt = "\x48\x65\x6c\x6c\x6f" | Hello | #A backslash followed by an 'x' and a hex number represents a hex value: |