

Chapter 4 - Strings

Strings are used to store and manipulate text. String can be created using the following syntax:

```
let name = "Harry" → Creates a string
```

name.length

↳ This property prints length of the string

Strings can also be created using single quotes

```
let name = 'Harry'
```

Template Literals

Template literals use backticks instead of quotes to define a string

```
let name = `Harry`
```

With template literals, it is possible to use both single as well as double quotes inside a string

```
let sentence = `The name "is" Harry's`
```

backtick

double quote

Single quote

We can insert variables directly in template literal. This is called string interpolation

```
let a = `This is ${name}` → Prints 'This is a Harry'`
```

name is a variable

Escape Sequence Characters

If you try to print the following string, JavaScript will misunderstand it

```
let name = 'Adam D'Angelo'
```

We can use single quote escape sequence to solve the problem

```
let name = 'Adam D\'Angelo'
```

Similarly we can use \" inside a string with double quotes

Other escape sequence characters are as follows

\n → Newline

\t → Tab

\r → Carriage Return

String properties and Methods

1.

```
let name = "Harry"
```



```
name.length → prints 5
```

2.

```
let name = "Harry"
```



```
name.toUpperCase() → prints HARRY
```

3.

```
let name = "Harry"
```



```
name.toLowerCase() → prints harry
```


4> `let name = "Harry"`
 `name.slice(2, 4)` → prints `rr`
 (from 2 to 4, 4 not included)

5> `let name = "Harry"`
 `name.slice(2)` → prints `rry`
 (from 2 to end)

6> `let name = "Harry Bhai"`
 `let newName = name.replace("Bhai", "Bhanu")`

7> `let name1 = "Harry"`
 `let name2 = "Naman"`
 `let name3 = name1.concat(name2, "Yes")`
 ↳ We can even use `+` operator

8> `let name = " Harry "`
 `let newName = name.trim()`
 ↳ Removes whitespaces

Strings are immutable. In order to access the character at an index we use the following syntax

`let name = "Harry"`
 `name[0]` → Prints `H`
 `name[1]` → Prints `a`

Chapter 4 - Practice Set

- 1 What will the following print in JavaScript?
`console.log("har\"".length)`
- 2 Explore the `includes`, `startsWith` & `endsWith` functions of a string
- 3 Write a program to convert a given string to lowercase
- 4 Extract the amount out of this string
"Please give Rs 1000"
- 5 Try to change 4th character of a given string.
Were you able to do it?