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| A7D18627**COMSATS UNIVERSITY ISLAMABAD**  **ATTOCK CAMPUS** |

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| Assignment no:01 | MAD |
| Semester | 8th |
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<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8">

<meta name="viewport" content="width=device-width, initial-scale=1.0">

<title>JavaScript String Methods</title>

</head>

<script>

let name = "anonyms";

// String length

console.log(name.length);

// String toUpperCase()

// String toLowerCase()

console.log(name.toUpperCase());

console.log(name.toLowerCase());

// There are 3 methods for extracting a part of a string:

// slice(start, end)

// substring(start, end)

// substr(start, length)

// \*\*slice

// slice method take argument

console.log(name.slice(0,2));

console.log(name.slice(2));

//\*\*\*\* substring(start, end)

const str = "Hello, World!";

const sub1 = str.substring(0, 5); // Extracts characters from index 0 to 4 (inclusive).

console.log(sub1); // Output: "Hello"

const sub2 = str.substring(7); // Extracts characters from index 7 to the end.

console.log(sub2); // Output: "World!"

const sub3 = str.substring(7, 12); // Extracts characters from index 7 to 11 (inclusive).

console.log(sub3); // Output: "World"

//\*\*\*\* substr(start, length)

const strr = "Hello, World!";

const subb1 = strr.substr(0, 5); // Extracts 5 characters from index 0.

console.log(sub1); // Output: "Hello"

const subb2 = strr.substr(7); // Extracts characters from index 7 to the end.

console.log(sub2); // Output: "World!"

const subb3 = strr.substr(7, 5); // Extracts 5 characters from index 7.

console.log(sub3); // Output: "World"

const sub4 = strr.substr(-6); // Extracts characters from the 6th position from the end to the end.

console.log(sub4); // Output: "World!"

//replace method

console.log(name.replace("Sa","da"))

//replaceAll

let text = "I love cats. Cats are very easy to love. Cats are very popular."

text = text.replaceAll("Cats","Dogs");

text = text.replaceAll("cats","dogs");

console.log(text)

// concat method

let firstname="anonyms";

let secondname=" anonyms ";

console.log(firstname.concat(secondname, "is a good boy ",));

//trim method(cancel extra spaces )

let friend2=" anonyms ";

console.log(friend2.trim())

console.log(friend2.trimStart())

console.log(friend2.trimEnd())

// padStart method()

let text2 = "5";

text = text2.padStart(4,"0");

console.log(text)

let numb = 5;

let text3 = numb.toString();

let padded = text.padStart(4,"0");

console.log(padded)

// padEnd method()

let padded1 = text3.padEnd(4,"0");

console.log(padded1)

let text4 = "5";

let padded2 = text4.padEnd(4,"x");

console.log(padded2)

let text5 = numb.toString();

let padded3 = text5.padEnd(4,"0");

console.log(padded3)

// There are 3 methods for extracting string characters:

// charAt(position)

// charCodeAt(position)

// Property access [ ]

console.log("\*\*\*\*\*\*\*charAt(position)\*\*\*\*\*\*\*\*\*\*\*\*\*\*")

let text6 = "HELLO WORLD";

let char = text.charAt(0);

console.log(char)

// charCodeAt(position)

let text7 = "HELLO WORLD";

let char2 = text.charCodeAt(0);

console.log(char2)

// Property access [ ]

let text8 = "HELLO WORLD";

let char3 = text8[0];

console.log(char3)

//Split

let tex = "Hello";

const myArr = tex.split("");

tex = "";

for (let i = 0; i < myArr.length; i++) {

tex += myArr[i]

}

console.log(tex)

</script>

<body>

<h1><strong>JavaScript String Methods</strong></h1>

</body>

</html>