CLIENT SIDE SCRIPTING (22519)

Practical No. 05: Develop program to implement Strings
Roll No.: 220447

1) **Write a program to create a string using different methods and finding the length of string.**

```
let str = "Python";
let str2 = new String("JavaScript");
document.write("String1 : " + str + "<br>");
document.write("String2 : " + str2 + "<br>");
let x = `Length of ${str} is ${str.length}` + "<br>";
document.write(x);
x = `Length of ${str2} is ${str2.length}`;
document.write(x);
```

```
String1 : Python
String2 : JavaScript
Length of Python is 6
Length of JavaScript is 10
```

2) **Write a program to find the index of particular String using different parameters.**

```
let pet = "Wolf";
let x = `The 2nd character in ${pet} is ${pet.charAt(1)}`;
console.log(x);
x = `The 4th character in ${pet} is ${pet.charAt(3)}`;
console.log(x);
x = `The 8th character in ${pet} is ${pet.charAt(7)}`;
console.log(x);
```

```
The 2nd character in Wolf is o
The 4th character in Wolf is f
The 8th character in Wolf is
> typeof pet.charAt(7)
< 'string'
> pet.charAt(9)
< ''
```

3) **Write a program for extracting the String using different parameters.**

```
let str = "Programming";
console.log("Original String : ", str);
console.log(str.substring(4));
console.log(str.substring(3,3+4));
console.log(str.substring(-2,3));
console.log(str.slice(4,10));
console.log(str.slice(-7,7));
```

```
Original String :  Programming
ramming
gram
Pro
rammin
ram
```

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4) **Write a program for replacing and converting the String to uppercase and Lowercase using different methods and parameters.**

```
let lang = "JavaScript", m="mimicry";

console.log("Original String : ", lang);

lang = lang.replace('i','a');

console.log(lang);

lang = lang.replace('a','o');

console.log(lang);

lang = lang.replaceAll('a','y');

console.log(lang);

console.log("Another String : ", m);

console.log("Replacing All :
",m.replaceAll('mi','ba'));

console.log(lang.toUpperCase());

console.log(lang.toLowerCase());
```

```
Original String :  JavaScript
JavaScrapt
JovaScrapt
JovyScrypt
Another String :  mimicry
Replacing All :  babacry
JOVYSCRYPT
jovyscrypt
```

5) **Write a program to concatenate two strings.**

```
let firstName = "Abdul Mannan", lastName = "Sayyed";
console.log("Full Name : " , firstName.concat(" ", lastName));
console.log(firstName+" "+lastName+" is
a Computer Engineer");
```

```
Full Name :  Abdul Mannan Sayyed
Abdul Mannan Sayyed is a Computer Engineer
```

6) **Write a program to trim the whitespace, find the character code as well as the character at the specific index.**

```
let userName = "  sayyedmannan2006 ";
console.log("Original username entered : "+userName);
userName = userName.trim();
console.log("After trimming : "+ userName);
console.log("ASCII Value of 1st character ", userName.charAt(0)," is ",
userName.charCodeAt(0));
console.log("Character from ASCII Code 76,79,86,69: ",
String.fromCharCode(76,79,86,69));
```

```
Original username entered :    sayyedmannan2006
After trimming : sayyedmannan2006
ASCII Value of 1st character  s  is  115
Character from ASCII Code 76,79,86,69:  LOVE
```

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7) Write a program to convert the string to number using different function.

```
function breakTag(){

    return "<br>";

}

let even = "24680";

let msg = "Hello";

let spacedNum = "   47";

let alphaNum = "a47";

document.write(even + " as Number : " + Number(even)+ breakTag());

document.write(msg + " as Number : " + Number(msg) +breakTag());

document.write("A Fruit : ba" + Number(msg) + "a"+breakTag());

document.write(spacedNum + " as Number : " + Number(spacedNum) +breakTag());

document.write(alphaNum + " as Number : " + Number(alphaNum) +breakTag());
```

```
24680 as Number : 24680
Hello as Number : NaN
A Fruit : baNaNa
47 as Number : 47
a47 as Number : NaN
```