



Subject : 2304CS431 – Client Side Scripting using
Javascript

Faculty: Prof. Chirag K. Sakhrani

Practical - 13: Working with Arrays

1) WAP to create an array of countries read values of an array from user and print it.(A)

Program :-

```
const countries = Array()

for (let i = 0; i < 3; i++) {
    countries[i] = prompt(`enter value for index ${i}`)
}

console.log("countries list");
for (let i = 0; i < countries.length; i++) {
    console.log(countries[i]);
}
```

Output :-

countries list
India
Japan
Us

2) WAP to read a numeric array from user and find maximum and minimum number from it. (A)

Program :-

```
const numbers = Array(3)
var min = 0, max = 0
for (let i = 0; i < numbers.length; i++) {
    numbers[i] = prompt(`enter value for index ${i}`)
}
min = numbers[0]
max = numbers[0]
for (let i = 2; i < numbers.length; i++) {
    if (min > numbers[i]) min = numbers[i]
    if (max < numbers[i]) max = numbers[i]
}
console.log(`max = ${min},max = ${max}`);
```

Input:- 1,6,9

Output :- max = 1,max = 9

3) WAP to demonstrate use of various inbuilt function on an array like push, pop and sort method for sorting string and numbers. (B)

Program:-

```
const numbers = [1, 3, 5, 6, 9, 2]
const str = ["ram", "raj", "arjun", "vidit"]
console.log(numbers);
numbers.push(11)
console.log("numbers.push(11) -> " + numbers);
numbers.pop()
console.log("numbers.pop() -> " + numbers);
numbers.sort()
```

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	<pre>console.log("numbers.sort() -> " + numbers); str.sort() console.log("str.sort() -> " + str);</pre>
	<p>Output :- [1, 3, 5, 6, 9, 2] numbers.push(11) -> 1,3,5,6,9,2,11 numbers.pop() -> 1,3,5,6,9,2 numbers.sort() -> 1,2,3,5,6,9 str.sort() -> arjun,raj,ram,vidit</p>
4)	WAP to demonstrate use of various inbuilt function on an array like shift, unshift splice, slice, reverse. (B)
	<p>Program:- const numbers = [1, 3, 5, 6, 9, 2] console.log(numbers); numbers.unshift(11) console.log("numbers.unshift(11) -> " + numbers); numbers.shift() console.log("numbers.shift() -> " + numbers); numbers.splice(2, 2) console.log("numbers.splice(2,2) -> " + numbers); numbers.splice(2, 0, 11, 22) console.log("numbers.splice(2,0,11,22) -> " + numbers); numbers.splice(2, 2, 88, 99) console.log("numbers.splice(2,2,88,99) -> " + numbers); console.log("numbers.slice(2,4) -> " + numbers.slice(2, 4)); console.log("numbers.slice(4) -> " + numbers.slice(4)); console.log("numbers.slice(-2) -> " + numbers.slice(-2));</p>
	<p>Output:- numbers.unshift(11) -> 11,1,3,5,6,9,2 numbers.shift() -> 1,3,5,6,9,2 numbers.splice(2,2) -> 1,3,9,2 numbers.splice(2,0,11,22) -> 1,3,11,22,9,2 numbers.splice(2,2,88,99) -> 1,3,88,99,9,2 numbers.slice(2,4) -> 88,99 numbers.slice(4) -> 9,2 numbers.slice(-2) -> 9,2</p>
5)	WAP to read an array from user and sort them in ascending order (without using inbuilt function). (C)
	<p>Program:- const numbers = Array(5) for (let i = 0; i < numbers.length; i++) { numbers[i] = prompt('enter only number for index \${i}') } for (let i = 0; i < numbers.length - 1; i++) { for (let j = 0; j < numbers.length - i; j++) { if (numbers[j] > numbers[j + 1]) {</p>



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	<pre> var tem = numbers[j] numbers[j] = numbers[j + 1] numbers[j + 1] = tem } }</pre> <pre>for (let i = 0; i < numbers.length; i++) { console.log(numbers[i]); }</pre>
	<p>Input:-</p> <p>9 8 7 6 5</p> <p>Output:-</p> <p>5 6 7 8 9</p>