<!DOCTYPE html>

<html lang="en">

<head>

<meta charset="UTF-8" />

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

<title>Document</title>

</head>

<body>

<script>

var array = [];

var x = prompt(" enter the size of array ");

//Input the element in the array

for (i = 0; i < x; i++) {

array[i] = prompt("enter array element" + (i + 1));

}

//display the array element

for (i = 0; i < x; i++) {

document.write(

"the element at position " + i + " is: " + array[i] + "</br><br>"

);

}

//program to append an object to an array using push() method

function pushFunc(arr, obj) {

//append object

arr.push(obj);

console.log(arr);

document.write("using push method " + arr + "</br><br>");

}

let obj1 = ["java", "script"];

pushFunc(array, obj1);

//program to check if a object is an array

function checkObject(arr) {

//check if arr is array

const result = Array.isArray(arr);

if (result) {

console.log("[arr] is an array");

document.write("this is an array </br><br>");

} else {

console.log("[arr] is not an array");

document.write("this is not an array </br><br>");

}

}

checkObject(Array);

console.log(Array);

// program to append an object to an array using splice() method

function spliceFunc(arr, obj) {

//find the last index

let index = arr.length;

//appending object to ana end of array

arr.splice(2, 0, obj2);

console.log(arr);

document.write("splicing at index 2: " + arr + "</br><b>");

}

//object to add

let obj2 = ["we", "like"];

//call the function

spliceFunc(array, obj2);

//program to append an object to an array using unshift() method

function unshiftFunc(arr, obj) {

//append object

arr.unshift(obj);

console.log(arr);

document.write("using unshift method: " + arr + "</br><br>");

}

let obj3 = ["we", "learn", "and"];

unshiftFunc(array, obj3);

//program to append an object to an array using spread operator

function spreadOperator(arr, obj) {

//append object

arr = [...arr, obj4];

console.log(arr);

document.write("using spread operator: " + arr + " </br><b> ");

}

//object the function

spreadOperator(array, obj4);

</script>

</body>

</html>