10/2/2021

Program no: 10

CO2

Aim: Create a HTML page to explain the use of various predified functions in a string and math object in java script.

Program:

```
<html>
<head> </head>
<body>
<p id = "demo"></p>
<p id = "1"></p>
<input type = button" onclick = "funn()" >
<script>
var xz = ["Maruti, "Tata", "Mahindra"];
document.getElementById("demo").innerHTML+=
                    "Example of an array :" + xz,
var y = xz.sort();
document.getElementById("demo").innerHTML +=
                    "Sorted Array :" +y;
function funn(){
    var p = prompt ("Enter Your name :", "Amala");
    if(p!= null) {
    document.getElementById.innerHTML = "Hello" +p+ " Hai
}
}
```

```
var xy = ["BMW", "Maruti", "hyndai", "Fiat", "Chevorlate"]
var t = ""
var i
for (i=0; i<xy.length; i++) {
  t+ = "<li>" + xy[i] + "</li>"  }
document.getElementById("demo").innerHTML +=
                    "Array Element Listed :" + t;

var x = ["BMW," "Maruti," "hyndai," "Fiat," "Chevorlate"]
document.getElementById("demo").innerHTML +=
                    Original arroy: "+x;

var z = ["Horse", "Lion", "Rabbit"]
var len = x.length
document.getElementById("demo").innerHTML +=
                    " Length of the arroy : " + len;

x.push("Lemon")
document.getElementById("demo").innerHTML +=
                    "Array after Lemon is pushed :" + x;

x[x.length] = "Chikku"
document.getElementById("demo").innerHTML +=
                    "Chikku is pushed to end using index :" + x;
```

```
x[3] = "Watermelon";
document.getElementById("demo").innerHTML +=
                "Element at index 3 is replaced:" +x;
x.pop();
document.getElementById("demo").innerHTML +=
                "Pop Operation : " +x;
x.shift();
document.getElementById("demo").innerHTML +=
                "Shift Operation :" +x;
x.unshift("Orange");
document.getElementById("demo").innerHTML +=
                "Unshift Operation : " + x;
x.splice(2, 0, "Chikku", "Kiwi")
document.getElementById("demo").innerHTML +=
                "Arroy after splice : " +x;
x.reverse();
document.getElementById("demo").innerHTML +=
                "Array Elements Reversed :" +x;
var a = x.concat(z)
var y = x.toString();
document.getElementById("demo").innerHTML += "Second arroy:" +x;
document.getElementById("demo").innerHTML+= "Concat both arroy"
                                              +a;
document.getElementById("demo").innerHTML+= "Arroy convert to
                                              string:" +y;
```

```
document.getElementById("demo").innerHTML+="Math
                                    Operations";
document.getElementById("demo").innerHTML +=
                    "Rounding a number : "+Math.round(x)
document.getElementById("demo").innerHTML +=
                    "Power of 8 :"+ Math.pow(8,2);
document.getElementById("demo").innerHTML +=
                    "PI Value : "+Math.PI
document.getElementById("demo").innerHTML +=
                    "Square root of 81 : "+Math.sqrt(81);
document.getElementById("demo").innerHTML +=
                    "Absolute value of -81 :"+Math.abs(-81);
document.getElementById("demo").innerHTML +=
                    "Celing value of 8.1 :"+Math.ceil(8.1);
document.getElementById("demo").innerHTML +=
                    "Floor value of 8.1 :"+Math.floor(8.1);
document.getElementById("demo").innerHTML +=
                    "Minimum value among 8,3,4,67,0 is:"+Math.min(8,3,4,
                                                        67,0);
document.getElementById("demo").innerHTML +=
                    "Maximum value among 8,3,4,67,0 is:"+Math.min(8,3,4,67,0)
document.getElementById("demo").innerHTML += "Random values:
                    "+Math.random();
```

</script>

</body>

</html>

Result:

The program was executed and the output verified.

Output:

Example of an array: Maruti, Tata, Mahindra

Sorted array : Mahindra, Maruti, Tata

Array Element Listed :

- BMW
- Maruti
- hyndai
- Fiat
- Shevorlate

.) Original array : BMW, Maruti, hyndai, Fiat, Chevorlate

Length of array : 5

Array after Lemon is pushed : BMW, Maruti, hyndai, Fiat, Chevorlate, Lemon

Chikku is pushed to end using index :

BMW, Maruti, hyndai, Fiat, Chevorlate, Lemon, Chikku

Element at index 3 is replaced :

BMW, Maruti, hyndai, Watermelon, Fiat, Chevarlate, Lemon, Chikku

Pop operation : BMW, Maruti, hyndai, Watermelon, Chevarlate, Lemon

Shift operation : Maruti , hyndai, Watermelon, Chevorlate Lemon

Unshift operation: Orange, Maruti, hyndai, Watermelon, Chevorlate, Lemon

Array after Splice Operation : Orange, Maruti, Chikku, Kiwi, hyndai, watermelon , Chevorlate, Lemon

Array Element Reversed : Lemon, Chevorlate, Watermelon, hyndai, Kiwi, Chikki, Maruti, Orange

Second array : Horse, Lion, Rabbit

Concat both arrays : Lemon, Chevorlate, watermelon, hyndai, Kiwi, Chikki, Maruti, Orange, Horse, Lion, Rabbit

Array convert to String : Lemon, Chevorlate, Watermelon, hyndai, Kiwi, Chikku, Maruti, Orange