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Subject: 2104CS512 – JavaScript Framework

Assignment 1: WAP to demonstrate use of various array methods like *push*, *pop*, *shift*, *unshift*.

```
<!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>
    let arr = [1, 2, 3];
    //push
    arr.push(4);
    arr.push(5);
    console.log(arr);

    //pop
    let x = arr.pop();
    console.log(x);
    console.log(arr);

    //unshift
    arr.unshift(0);
    arr.unshift(-1);
    console.log(arr);

    //shift
    let y = arr.shift();
    console.log(y);
    console.log(arr);
  </script>
</body>
</html>
```

Assignment 1: Output

```
[ 1, 2, 3, 4, 5 ]
5
[1,2,3,4]
[-1,0,1,2,3,4]
-1
[0,1,2,3,4]
```

Assignment 2: WAP to demonstrate use of various array methods like *sort, reverse*.

```
<!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>
    let arr = [5, 2, 8, 1, 4, 3, 6, 7];
    //sort()
    arr.sort((a, b) => a - b);
    console.log(arr);

    //reverse()
    arr.reverse();
    console.log(arr);
  </script>
</body>
</html>
```

Assignment 2: Output

[1, 2, 3, 4, 5, 6, 7, 8]
[8, 7, 6, 5, 4, 3, 2, 1]

Assignment 3: WAP to demonstrate use of various array methods like *join*, *split*.

```
<!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>
    let arr = [5, 2, 8, 1, 4, 3, 6, 7];
    //join
    let str = arr.join(",");
    console.log("Joined string:", str);
    //split()
    let newArr = str.split(",");
    console.log("Split array:", newArr);
  </script>
</body>
</html>
```

Assignment 3: Output

```
Joined string : 5,2,8,1,4,3,6,7
[
  "5",
  "2",
  "8",
  "1",
  "4",
  "3",
  "6",
  "7"
]
```

Assignment 4: WAP to demonstrate use of various array methods like *include*, *find*.

```
<!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>
    let arr = [5, 2, 8, 1, 4, 3, 6, 7];

    //includes()
    console.log(arr.includes(5));
    console.log(arr.includes(9));

    //find()
    let x = arr.find(e => e > 5);
    console.log("Found element:", x);

  </script>
</body>
</html>
```

Assignment 4: Output

True
False
8

Assignment 5: WAP to demonstrate every function of ES6.

```
<!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>
    let a = [1,3,6,5];
    console.log("Array : "+a);
    result = a.every((temp)=>{
      if(temp>5){
        return true;
      }
    });
    console.log("result :"+result);
  </script>
</body>
</html>
```

Assignment 5: Output

Array : 1,3,6,5
false

Assignment 6: WAP to append object in array using Javascript.

```
<!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>
    let arr = [
      { id: 1, name: "KD" },
      { id: 2, name: "PT" }
    ];

    let newObj = { id: 3, name: "Darshan" };
    arr.push(newObj);
    console.log(arr);

    //using spread operator
    arr = [...arr, newObj];
    console.log(arr);
  </script>
</body>
</html>
```

Assignment 6: Output

```
[{ "id": 1, "name": "KD"}, { "id": 2, "name": "PT"}, { "id": 3, "name": "Darshan" }]

[{ "id": 1, "name": "KD"}, { "id": 2, "name": "PT"}, { "id": 3, "name": "Darshan"}, { "id": 3, "name": "Darshan" }]
```

Assignment 7: WAP to perform insert, update and delete operation on a static array using Javascript.

```
<!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>
    let arr = ["a", "b", "c", "d", "e"];

    //insert
    arr.splice(1, 0, "x", "y");
    console.log(arr);

    // Update
    arr[2] = "z";
    console.log(arr);

    // Delete
    arr.splice(3, 2);
    console.log(arr);
  </script>
</body>
</html>
```

Assignment 7: Output

['a', 'x', 'y', 'b', 'c', 'd', 'e']

['a', 'x', 'z', 'b', 'c', 'd', 'e']

['a', 'x', 'z', 'd', 'e']

