Spring AU '21 – JavaScript – Afternoon Session

Name: Sheik Abudhahir K

Date: 11/01/2021

User defined reduce() function

checks with different inputs and compared results with predefined reduce() function

```javascript
22    //Sheik Abudhahir K
23    const ar = [1,2,3,4,5,6];
24    |
25    //user defined function
26    function cReduce(arr,fun){
27        let val, acc=0;
28        for(let i=0;i<arr.length-1;i++){
29            acc+=arr[i];
30            val = fun(acc,arr[i+1]);
31        }
32        return val;
33    }
34    // Call user defined function
35    let as = cReduce(ar,(acc,val) =>{
36        console.log(acc);   1, 3, 6, 10, 15
37        console.log(val);   2, 3, 4, 5, 6
38        return acc+val;
39    });
40    console.log(as);   21
41
42    // call pre built function
43    let a = ar.reduce((acc,val) =>{
44        console.log(acc)   1, 3, 6, 10, 15
45        console.log(val)   2, 3, 4, 5, 6
46        return acc+val;
47    })
48    console.log(a);   21
49
```

```javascript
22    //Sheik Abudhahir K
23    const ar = [13,5,23,4,7,6];
24
25    //user defined function
26    function cReduce(arr,fun){
27        let val, acc=0;
28        for(let i=0;i<arr.length-1;i++){
29            acc+=arr[i];
30            val = fun(acc,arr[i+1]);
31        }
32        return val;
33    }
34    // Call user defined function
35    let as = cReduce(ar,(acc,val) =>{
36        console.log(acc);   13, 18, 41, 45, 52
37        console.log(val);   5, 23, 4, 7, 6
38        return acc+val;
39    });
40    console.log(as);   58
41
42    // call pre built function
43    let a = ar.reduce((acc,val) =>{
44        console.log(acc)   13, 18, 41, 45, 52
45        console.log(val)   5, 23, 4, 7, 6
46        return acc+val;
47    })
48    console.log(a);   58
49
```