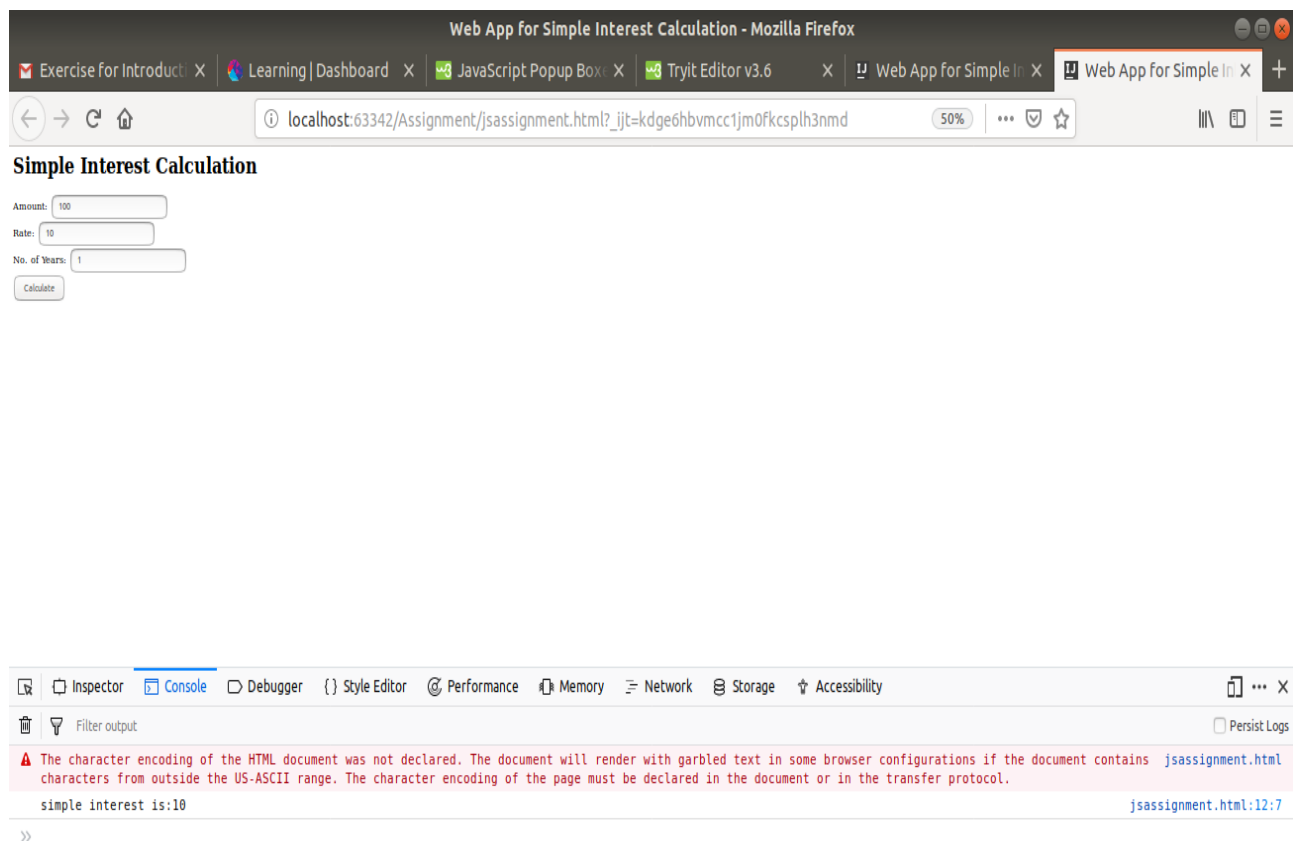


Introduction of JavaScript

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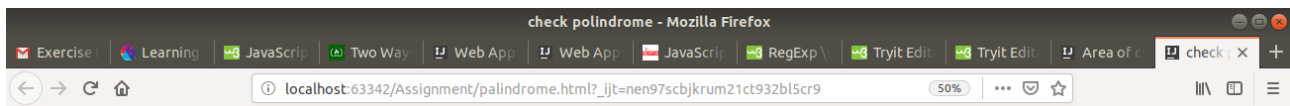
1.Prompt for amount, interest rate and no. of years and calculate simple interest.

```
<html>
<head>
  <title>calculate Simple Interest</title>
  <script>
    function calculate()
    {
      p = document.getElementById("p").value;
      n = document.getElementById("n").value;
      r = document.getElementById("r").value;
      txt="simple interest is:"+p*n*r/100;
      console.log(txt);
    }
  </script>
</head>
<body>
<h1>Simple Interest Calculation</h1>
Amount: <input id="p"><br/>
Rate: <input id="r"><br/>
No. of Years: <input id="n"><br/>
<button onClick="calculate()">Calculate</button>
<p id="result"></p>
</body>
</html>
```



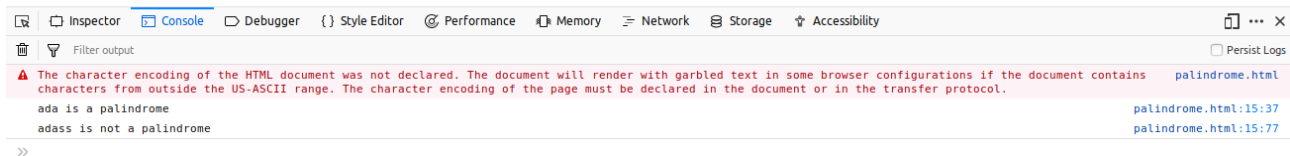
2.is palindrome string

```
<html>
<head>
  <title>check palindrome</title>
  <script>
    function calculate() {
      str= document.getElementById("s").value;
      let str1 = str.replace(/\s/g, '');
      // reverses string
      let str2 = str1.split('').reverse().join('');
      // compares original and reversed string
      let result = str1 == str2 ? console.log(str + ' is a palindrome') :
console.log(str + ' is not a palindrome')
    }
  </script>
</head>
<body>
<h1>Calculate palindrome</h1>
Enter string: <input id="s"><br/>
<button onclick="calculate()">Calculate</button>
<p id="result"></p>
</body>
</html>
```



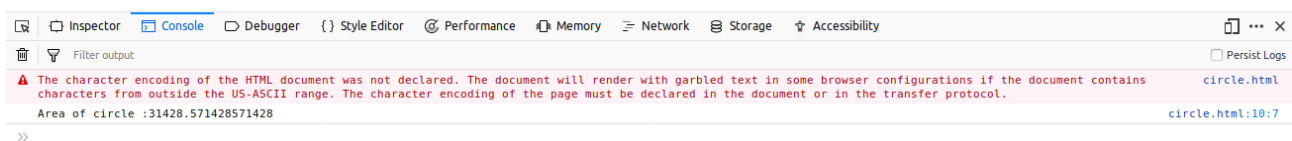
Calculate palindrome

Enter string:



3. Area of circle

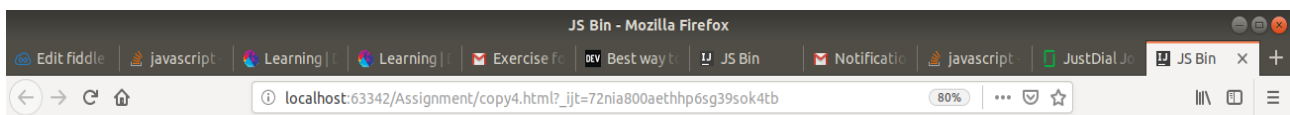
```
<html>
<head>
  <title>Area of circle</title>
  <script>
    function calculate() {
      radius = document.getElementById("c").value;
      area=22/7*radius*radius;
      console.log('Area of circle :'+area)
    }
  </script>
</head>
<body>
<h1>Calculate Circle</h1>
Enter radius of circle: <input id="c"><br/>
<button onclick="calculate()">Calculate</button>
</body>
</html>
```



4. Copy information of one object to another and log it to console.

```
<!DOCTYPE html>
<html>
<head>
  <meta charset="utf-8">
  <meta name="employee details" content="width=device-width">
  <title>JS Bin</title>
<script>
  function copy( obj1, obj2 ) {
    for ( var i in obj2 ) {
      obj1[i] = obj2[i];
    }
    console.log(obj1);
  }
</script>
```

```
}  
var emp1= {  
  name: "raj",  
  id: "e001",  
  adr: "patna"  
};  
var emp = copy({  
  newlocation: "patna",  
  jobp: "jvm"  
}, emp1 );  
</script>  
</head>  
<body>  
</body>  
</html>
```



5. create a list of objects of Employee with info as follow :

- Name, age, salary ,DOB
- filter all employees with salary greater than 5000
- group employee on the basis of their age
- fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="utf-8">
  <script>
    createList();
    function createList(){
      var li = [
        {
          name:"Raj",
          age: 21,
          salary : 40000,
          dob: "01/01/1994"
        },
        {
          name: "Rahul",
          age:23,
          salary: 5000,
          dob: "02/02/1995"
        },
        {
          name: "Aman",
          age: 24,
          salary: 4000,
          dob:"03/03/1994"
        },
        {
          name:"Aditya",
          age: 22,
          salary: 30000,
          dob:"04/04/1996"
        },
        {
          name:"Jay",
          age: 21,
          salary: 20000,
          dob:"05/05/1997"
        },
        {
          name:"Ajay",
          age: 20,
          salary: 10000,
          dob:"06/06/1998"
        },
        {
          name:"Ram",
          age: 23,
          salary: 900,
          dob:"06/06/1995"
        }
      ]
    }
  }
};
```

```

        console.log(li);
        console.log(filterSalary(li));
        console.log(filterSalaryAndAge(li));
        console.log(groupByAge(li));
    }
    function filterSalary(list){
        var arr=[];
        for(var i = 0 ; i < list.length ; i++){
            if(list[i]["salary"]>5000){
                arr.push(list[i]);
            }
        }
        return arr;
    }
    function groupByAge(list){
        console.log("List",list);
        var arr = [];
        var arr1 = list;
        for(var i = 0 ; i < arr1.length ; i++){
            if(arr1[i]["age"]!==0){
                var arr2=[];
                arr2.push("For Age: "+ arr1[i]["age"]);
                arr2.push(arr1[i]["name"]);
                for(var j = i+1 ; j < arr1.length;j++){
                    if(arr1[i]["age"]===arr1[j]["age"]){
                        arr2.push(list[j]["name"]);
                        arr1[j]["age"] = 0;
                    }
                }
                arr.push(arr2);
            }
        }
        return arr;
    }
    function filterSalaryAndAge(list){
        var arr=[];
        for(var i = 0 ; i < list.length ; i++){
            if(list[i]["salary"]<1000 && list[i]["age"]>20){
                list[i]["salary"] = list[i]["salary"] * 5;
                arr.push(list[i]);
            }
        }
        return arr;
    }
</script>
</head>
<body>
</body>
</html>

```

Mozilla Firefox

Exercise for In X Practice/script X creating list of X \$(document). X localhost:6334 X localhost:6334 X localhost:6334 X localhost:6334 X

localhost:6334/Assignment/basictag.html?_ijt=nf7oihn5o6euek42d1mm7imc10 80% ...

Inspector Console Debugger {} Style Editor Performance Memory Network Storage Accessibility

Filter output Persist Logs

```
(7) [-]
  ▶ 0: Object { name: "Raj", age: 21, salary: 40000, _ }
  ▶ 1: Object { name: "Rahul", age: 23, salary: 5000, _ }
  ▶ 2: Object { name: "Aman", age: 24, salary: 4000, _ }
  ▶ 3: Object { name: "Aditya", age: 22, salary: 30000, _ }
  ▶ 4: Object { name: "Jay", age: 0, salary: 20000, _ }
  ▶ 5: Object { name: "Ajay", age: 20, salary: 10000, _ }
  ▶ 6: Object { name: "Ram", age: 0, salary: 4500, _ }
  length: 7
  ▶ <prototype>: Array []
  basictag.html:52:7

(4) [-]
  ▶ 0: Object { name: "Raj", age: 21, salary: 40000, _ }
  ▶ 1: Object { name: "Aditya", age: 22, salary: 30000, _ }
  ▶ 2: Object { name: "Jay", age: 0, salary: 20000, _ }
  ▶ 3: Object { name: "Ajay", age: 20, salary: 10000, _ }
  length: 4
  ▶ <prototype>: Array []
  basictag.html:53:7

(1) [-]
  ▶ 0: Object { name: "Ram", age: 0, salary: 4500, _ }
  length: 1
  ▶ <prototype>: Array []
  basictag.html:54:7

List (7) [-]
  ▶ 0: Object { name: "Raj", age: 21, salary: 40000, _ }
  ▶ 1: Object { name: "Rahul", age: 23, salary: 5000, _ }
  ▶ 2: Object { name: "Aman", age: 24, salary: 4000, _ }
  ▶ 3: Object { name: "Aditya", age: 22, salary: 30000, _ }
  ▶ 4: Object { name: "Jay", age: 0, salary: 20000, _ }
  ▶ 5: Object { name: "Ajay", age: 20, salary: 10000, _ }
  ▶ 6: Object { name: "Ram", age: 0, salary: 4500, _ }
  length: 7
  ▶ <prototype>: Array []
  basictag.html:70:7

(5) [-]
  ▶ 0: Array(3) [ "For Age: 21", "Raj", "Jay" ]
  ▶ 1: Array(3) [ "For Age: 23", "Rahul", "Ram" ]
  ▶ 2: Array [ "For Age: 24", "Aman" ]
  ▶ 3: Array [ "For Age: 22", "Aditya" ]
  basictag.html:55:7
```

>>