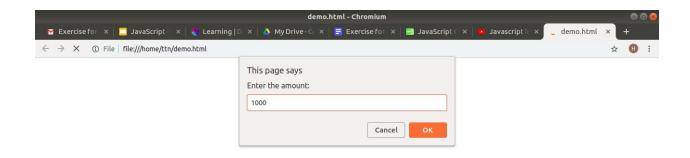
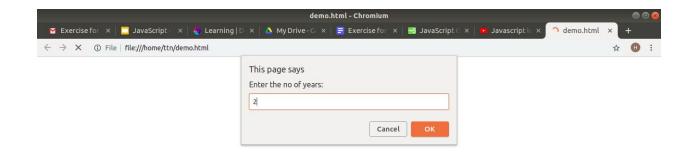
# **Exercise for Introduction to Javascript**

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

```
Ans:
<!DOCTYPE html>
<html>
<head>
</head>
<script type="text/javascript" src="demo.js">
</script>
<body>
</body>
</html>
Demo.js
var amount=prompt("Enter the amount:");
var rate=prompt("Enter the rate of interest:");
var years=prompt("Enter the no of years:");
var interest= (amount * rate * years) / 100;
document.write("Simple interest:"+interest);
```









Simple interest:40

### 2. is palindrome string

```
Ans:
<!DOCTYPE html>
<html>
<head>
</head>
<title>Palindrome</title>
<body>
<h1 align="center">Palindrome</h1>
<form id="form1">
Enter the string: <input name="name" type="text" required>
<input type="button" value="Check" onclick="palindrome()"/>
<script>
function palindrome(){
      var name,x;
      x=document.getElementById("form1");
       name=x.elements["name"].value;
      var rev= name.split("");
       var rev=rev.reverse();
       var rev=rev.join("");
       if(name==rev){
             msg="Palindrome string";
      }
       else{
             msg="Not a palindrome string";
}
  document.getElementById("message").innerHTML = msg;
}
</script>
</body>
</html>
```





### **Palindrome**

Enter the string: naman
Check

Palindrome string

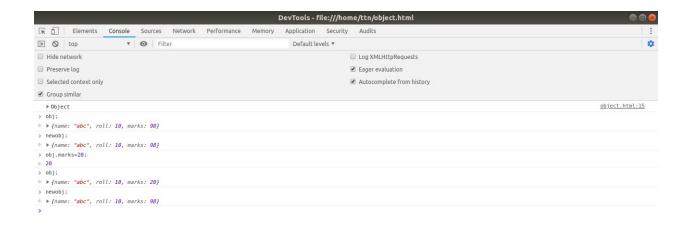
### 3. Area of circle

```
Ans:
<!DOCTYPE html>
<html>
<head>
</head>
<title>Area</title>
<body>
<h1 align="center">Area of circle</h1>
<form id="form1">
Enter the radius: <input name="radius" type="text" required>
</form>
<input type="button" value="Find area" onclick="area()"/>
<script>
function area(){
      var radius,x,area;
      x=document.getElementById("form1");
      radius=x.elements["radius"].value;
      area=3.14*radius*radius;
      msg="Area of circle:"+area;
  document.getElementById("message").innerHTML = msg;
}
</script>
</body>
</html>
```



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

```
Ans:
<!DOCTYPE html>
<html>
<head>
</head>
<title>Copy object</title>
<body>
<script>
var obj={ name: "abc", roll:10, marks: 98};
var newobj={ name: null, roll: null, marks: null};
for(i in obj)
{
       newobj[i]=obj[i];
console.log(newobj);
</script>
</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.

#### Ans:

```
<!DOCTYPE html>
<html>
<head>
</head>
<title>List of employees</title>
<body>
<script>
```

```
var employee_list = [
  { name: 'Rohit', age: 40, salary: 5000, dob: '7-7-1981'},
  { name: 'Karan', age: 25, salary: 8000, dob: '5-11-1988'},
  { name: 'Mohit', age: 45, salary: 3000, dob: '24-4-1973'},
  { name: 'Sunil', age: 45, salary: 2000, dob: '10-7-1949'},
  { name: 'Kartik', age: 25, salary: 500, dob: '18-4-1998'},
  { name: 'Rishabh', age: 25, salary: 800, dob: '11-10-2000'}
];
document.write("(Part1) <br > List of Employees are:- <br >")
employee_list.forEach(
  function(ele){
    document.write(JSON.stringify(ele) + "<br>")
  }
)
document.write("<br> (Part 2) <br> Employees with salary greater than 5000 are:- <br>")
count = 0
employee_list.forEach(
  function(ele){
    if (ele.salary \geq 5000){
       count++
       document.write(count + ". " + ele.name + "<br>")
    }
 }
)
Array.prototype.groupBy = function(prop) {
  return this.reduce(function(groups, item) {
   const val = item[prop]
   groups[val] = groups[val] || []
   groups[val].push(item)
   return groups
  }, {})
}
document.write("<br/>
"> (Part3) <br/>
"> Grouped the objects of Employee by Age:- <br/>
")
document.write(JSON.stringify(employee_list.groupBy("age")) + "<br>");
document.write("<br/>
"<br/>
All employees with salary less than 1000 and age greater
than 20 are:- <br>")
c = 0
```

```
employee_list.forEach(
    function(ele){
        if (ele.salary < 1000 && ele.age>20){
            document.write(c + ". " + ele.name + ": " + ele.salary + "<br>")
        }
   }
)
document.write("<br> And now their salaries are incremented by 5 times:-<br/> -<br/> times:-<br/> -<br/> ')
employee_list.forEach(
    function(ele){
        if (ele.salary < 1000 && ele.age>20){
            ele.salary *=5
            document.write(c + ". " + ele.name + ": " + ele.salary + "<br>")
        }
   }
</script>
</body>
</html>
                                                                         List of employees - Chromium
    💌 Exerci x 🍕 Learni x 🛕 My Dri x 📑 Exerci x 💹 JavaSc x 🔼 Javasc x 🗋 List of x
                                                                                                         ☑ JavaSc× 🔘 Basics × 🔣 JavaSc× 🔘 Basics ×
  \leftarrow \rightarrow \mathbf{C} ① File | file:///home/ttn/list.html
 (Part1)
List of Employees are:-
{"name":"Rohit!", "age":40, "salary":5000, "dob":"7-7-1981"}
{"name":"Karan", "age":25, "salary":8000, "dob":"5-11-1988"}
{"name":"Mohit!", "age":45, "salary":3000, "dob":"24-4-1973"}
{"name":"Sunil!", "age":45, "salary":3000, "dob":"10-7-1949"}
{"name":"Kartik!", "age":25, "salary":500, "dob":"11-4-1998"}
{"name":"Rishabh", "age":25, "salary":800, "dob":"11-10-2000"}
 (Part 2)
Employees with salary greater than 5000 are:-
1. Rohit
2. Karan
 (Part 4) All employees with salary less than 1000 and age greater than 20 are:-1. Kartik: 500\, 2. Rishabh: 800\,
 And now their salaries are incremented by 5 times:-
 1. Kartik: 2500
2. Rishabh: 4000
```