# Introduction to JavaScript Exercise 6 Abhishek Maurya

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

<button onclick="simpleInterest()">Get Simple Interest</button>  
 <p id="amount" class="style"></p>  
 <p id="interest" class="style"></p>  
 <p id="years" class="style"></p>  
 <p id="SI" class="style"s></p>

* + JS

function simpleInterest() {  
 var amount = prompt("Enter amount: ","");  
 var interest\_rate = prompt("Enter interest rate: ", "");  
 var num\_years = prompt("Enter number of years: ", "");  
 var simple\_interest;  
 if (amount!= null && interest\_rate != null && num\_years != null) {  
 document.getElementById("amount").innerHTML = "Amount: " + amount;  
 document.getElementById("interest").innerHTML = "Total Interest: " + interest\_rate;  
 document.getElementById("years").innerHTML = "Total Years: " + num\_years;  
 simple\_interest = (amount \* interest\_rate \* num\_years) / 100;  
 document.getElementById("SI").innerHTML = "Simple Interest: " + simple\_interest;  
 }  
}

1. **is palindrome string**
   * HTML

<button onclick="isPalindrome()">is Palindrome ?</button>

* + JS

function isPalindrome() {  
 var str = prompt("Enter a string to check: ", "");  
 var len = str.length;  
 var mid = Math.floor(len/2);  
  
 for(var i = 0; i < mid; i++ ) {  
 if (str[i] !== str[len - 1 - i]) {  
 alert(str +" not Palindrome.");  
 break;  
 }  
 else {  
 alert(str +" is Palindrome.");  
 }  
 }  
}

1. **Area of circle**
   * HTML

<button onclick="areaCircle()">Area of circle</button>

* + JS

function areaCircle() {  
 var radius = prompt("Enter radius for CIRCLE: ", "");  
 var area = 2.14 \* radius \* radius;  
 alert("Required Circle Area: " + area);  
}

1. **Copy information of one object to another and log it to console.**
   * HTML

<button onclick="copyObj()">Copy obj and console it:</button>

* + JS

var person = {  
 firstName:"Abhishek",  
 lastName:"Maurya",  
 age:21,  
 City:"Ghaziabad"  
};  
var personCopy = {};  
function copyObj() {  
 for (var key in person) {  
 personCopy[key] = person[key];  
 }  
 alert("Press ctrl+shift+i and open console tab to see effects.");  
 console.log(personCopy);  
}

1. **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.**
     + HTML

<ol>  
 <li>Name, age, salary ,DOB</li>  
 <table id="emp"class="style"></table><br>  
 <li>Filter all employees with salary greater than 5000.</li>  
 <p id="salary\_less" class="style"></p>  
 <li>Group employee on the basis of their age.</li>  
 <p id="trainee" class="style"></p>  
 <p id="software\_engineer" class="style"></p>  
 <p id="senior\_engineer" class="style"></p>  
 <li>Fetch employees with salary less than 1000 and age greater than 20.  
 Then give them an increment 5 times their salary.</li>  
 <p id="salary\_inc" class="style"></p>  
 <button onclick="listEmployee()">List of objects of Employee</button>

* + - JS

var Employee = [

{ Name: 'Rahul', Age: 22, Salary: 12000, DOB: '26/08/1996' },

{ Name: 'Deepak', Age: 18, Salary: 11500, DOB: '12/06/2000' },

{ Name: 'Aditya', Age: 35, Salary: 700, DOB: '31/04/1986' },

{ Name: 'Swati', Age: 21, Salary: 35000, DOB: '06/12/1997' },

{ Name: 'Arushi', Age: 29, Salary: 45000, DOB: '11/4/1989' },

{ Name: 'Abdul', Age: 30, Salary: 45000, DOB: '11/4/1988' },

];

function listEmployee() {

var len = Employee.length;

var employeeName = "";

var trainee = "";

var software\_engineer = "";

var senior\_engineer = "";

document.getElementById('emp').innerHTML = "<tr><th>Name</th><th>Age</th><th>Salary</th><th>DOB</th></tr>";

for (var j = 0; j < len; j++) {

document.getElementById('emp').innerHTML+="<tr><td>" + Employee[j].Name+"</td><td>"+Employee[j].Age+"</td><td>"+Employee[j].Salary+"</td><td>"+Employee[j].DOB+"</td></tr>";

}

for(var i = 0; i<len; i++) {

if(Employee[i].Salary > 5000) {

employeeName += Employee[i].Name + ", ";

}

if(Employee[i].Age < 20) {

trainee += Employee[i].Name + " ";

} else if (Employee[i].Age >= 21 && Employee[i].Age <35) {

software\_engineer += Employee[i].Name + ", ";

} else {

senior\_engineer += Employee[i].Name + ", ";

}

if(Employee[i].Salary < 1000 && Employee[i].Age > 20) {

Employee[i].Salary \*= 5;

}

}

document.getElementById("salary\_less").innerHTML = "Employee salary greater than 5000: " + employeeName;

document.getElementById("trainee").innerHTML = "Trainee Age < 20: " + trainee;

document.getElementById("software\_engineer").innerHTML = "21 =< Software\_Engineer\_list Age < 35: " + software\_engineer;

document.getElementById("senior\_engineer").innerHTML = "Senior\_Engineer\_list Age >= 35: " + senior\_engineer;

document.getElementById("salary\_inc").innerHTML = Employee[2].Salary;

}