

## 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>
       > 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;
    }
  }
```

## 2. 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.");
   }
</pre>
```



}

> <u>HT</u>ML

## 3. Area of circle

- 4. Copy information of one object to another and log it to console.
  - <button onclick="copyObj()">Copy obj and console it:</button>
    > <u>JS</u>

```
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);
}
```

- 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.



```
>
   HTML
   <01>
       Name, age, salary ,DOB
        <br>
        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.
        <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 =
   "NameAgeSalaryDOB";
    for (var j = 0; j < len; j++) {
      document.getElementById('emp').innerHTML+="" +
   Employee[j].Name+""+Employee[j].Age+""+Employee[j]
   .Salary+""+Employee[j].DOB+"";
    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) {</pre>
        software_engineer += Employee[i].Name + ", ";
        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;
}
```