Session: Introduction to JavaScript

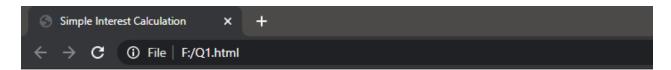
Assignment

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

Code

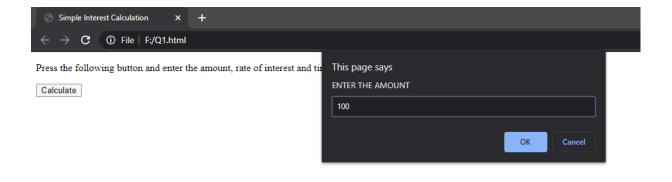
```
<!DOCTYPE html>
<html><head>
<title>Simple Interest Calculation</title>
</head>
<body>
 Press the following button and enter the amount, rate of interest and time to calculate simple
<input type="button" value="Calculate" onclick="si()"><br>
<script type="text/javascript">
function si()
var amt = prompt("ENTER THE AMOUNT");
var irate = prompt("ENTER RATE OF INTEREST");
var tm = prompt("ENTER THE NO. OF YEARS");
var si = (amt*irate*tm/100);
si = alert("SIMPLE INTEREST IS:-"+si);
</script>
</body>
</html>
```

OUTPUT

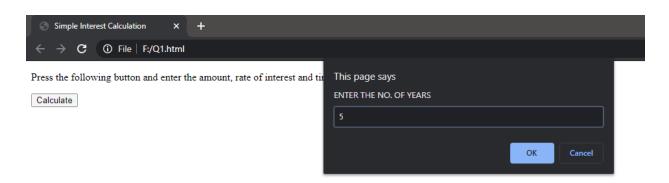


Press the following button and enter the amount, rate of interest and time to calculate simple interest

Calculate







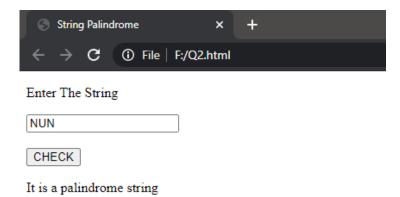


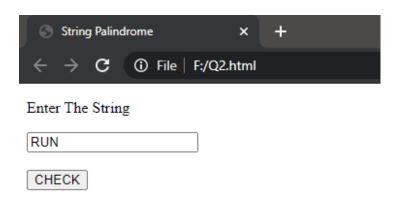
2. is palindrome string

Code

```
<!DOCTYPE html>
<html>
  <head>
   <title>String Palindrome</title>
  </head>
  <body>
          Enter The String
          <input type="text" id="strid" required><br><br>
          <input type="button" value="CHECK" onclick="check()"><br>
          <script type="text/javascript">
          function check()
           var str = document.getElementById("strid").value;
           document.getElementById("res").innerHTML = checkPal(str);
          function checkPal(strng)
          var len = strng.length;
          for (var i = 0; i < len / 2; i++)
                  if (strng[i] !== strng[len - 1 - i])
                          return 'It is not a palindrome string';
                          return 'It is a palindrome string';
    </script>
  </body>
</html>
```

OUTPUT





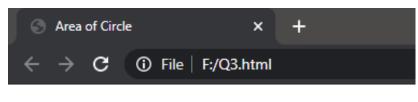
It is not a palindrome string

3. Area of circle

Code

```
var crad = document.getElementById("radid").value;
    document.getElementById("res").innerHTML = cal_area(crad);
}
function cal_area(rad)
{
    var r = rad;
    var area = Math.PI*r*r;
    return area;
}
</script>
</body>
</html>
```

OUTPUT



Enter The Radius

7

Calculate

Area is:

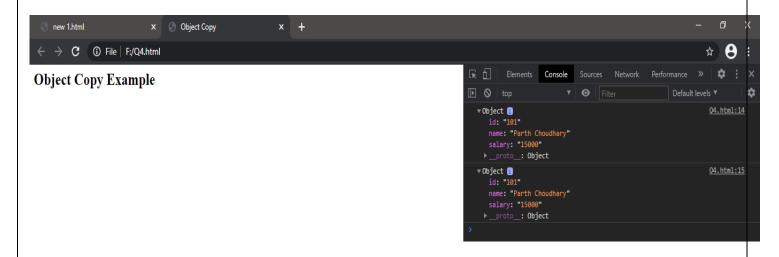
153.93804002589985

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

Code

```
<html>
<title>Object Copy </title>
<body>
<h2> Object Copy Example</h2>
<script type="text/javascript">
var emp = {
id: '101',
name: 'Parth Choudhary',
salary: '15000'
}
var worker = emp;
console.log(emp);
console.log(worker);
</script>
</body>
</html>
```

OUTPUT



- 5. create a list of objects of Employee with info as follow:
 - o Name, age, salary, DOB
 - o filter all employees with salary greater than 5000
 - o group employee on the basis of their age
 - o fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.

Code

```
<!DOCTYPE html>
<html>
<head>
  <title>Employee</title>
</head>
<body>
  <b>Filter all employees with salary greater than 5000</b><br/>br>
  <input type="button" value="Filter" onclick="salcount()">
  <br>
  <b>Group employee on the basis of their age</b><br
  <input type="button" value="Group" onclick="agegrp()"><br>
  <br>
  <b>Employees with salary less than 1000 and age greater than 20</b><br/>br>
  <input type="button" value="Check" onclick="salinc()"><br>
  <br>
  <b>Their salaries after 5 times increment</b><br
  <br>
  <script type="text/javascript">
    var Employee =
       {name: 'John', age: 33, salary: 25000, dob: '05/07/1997'},
       {name: 'James', age: 57, salary: 500, dob: '13/02/1956'},
       {name: 'Clay', age:21, salary: 700, dob: '09/12/1975'},
       {name: 'Justin', age: 17, salary: 95000, dob: '03/02/2001'},
       {name: 'Joe', age: 33, salary: 21000, dob: '11/010/2003'}
    ];
    function salcount()
      var sal filt = Employee.filter(function (res){
                         if(res.salary > 5000){
                                return res;
      document.getElementById("p1").innerHTML=JSON.stringify(sal filt);
    }
          function agegrp()
      var grp = Employee.reduce((grp, res) => {
                 var g arr = (grp[res.age] || []);
```

```
g arr.push(res);
                   grp[res.age] = g arr;
                  return grp; }, {} );
       document.getElementById("p2").innerHTML=JSON.stringify(grp);
     }
    function salinc()
                   var sal age = Employee.filter(function (res){
                           if(res.salary < 1000 \&\& res.age > 20){
                                  return res;
       document.getElementById("p3").innerHTML=JSON.stringify(sal age);
       for(var i in sal age)
         sal_age[i].salary*=5;
       document.getElementById("p4").innerHTML=JSON.stringify(sal age);
  </script>
</body>
</html>
```

OUTPUT

