Introduction to JavaScript 12-Feb-2019

Q1.

Simple Interest (calculated anually) is: 2000

Code:

```html
<!DOCTYPE html>
<html lang="en">
   <head>
   <meta charset="utf-8">
      <title>Simple Interest</title>
   </head>
   <script type="text/javascript">
   function simpl()
   {
   var p,r,t;
   p=parseFloat(prompt("Please Enter Principle Amount"));
   r=parseFloat(prompt("Please Enter Rate Amount"));
   t=parseFloat(prompt("Please Enter Time(year)"));
   var si=(p*r*t)/100;
   document.write("Simple Interest (calculated anually) is: "+si);
   }
   </script>
   <body>
   <center>
      <h1> Click Calculate button to calculate simple intrest </h1><br>
      <input type="button" value="Calculate Simple Interest" onclick="simpl()"
/>
      </center>
   </body>
</html>
```
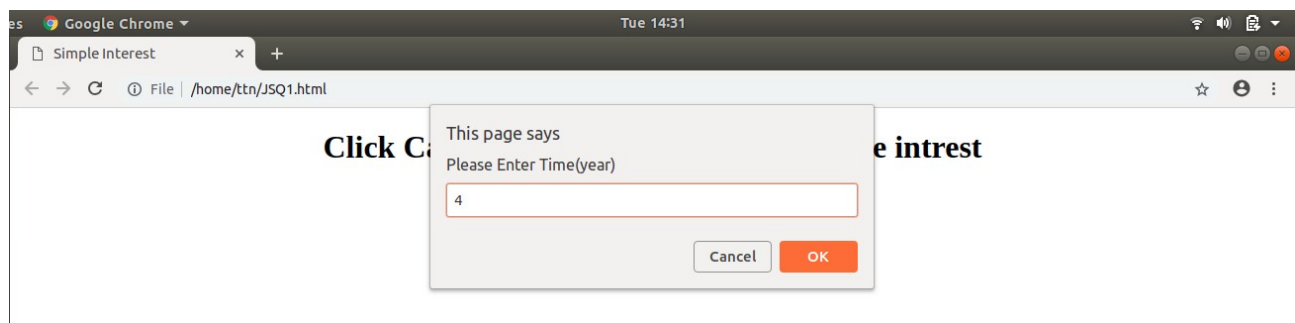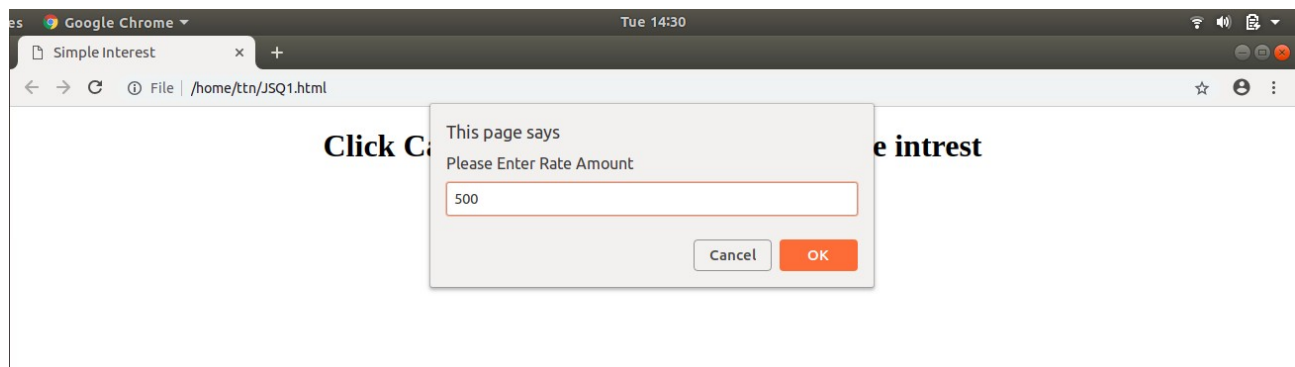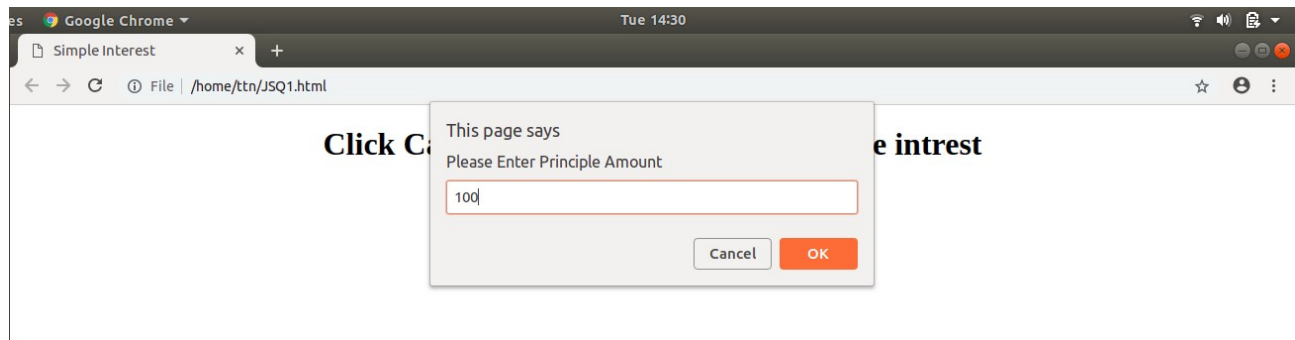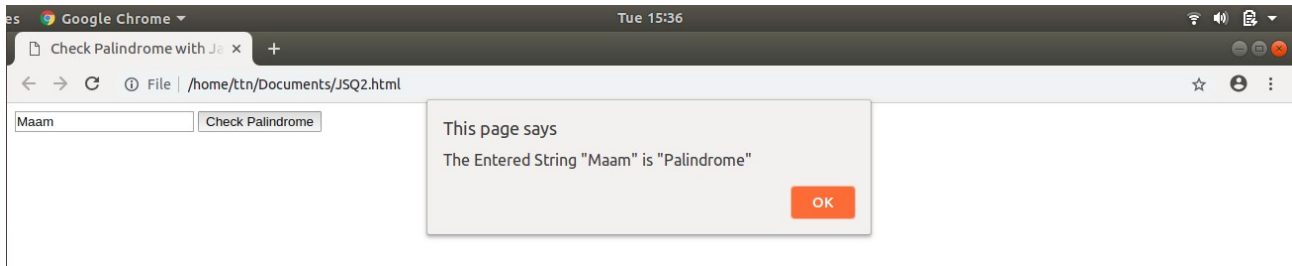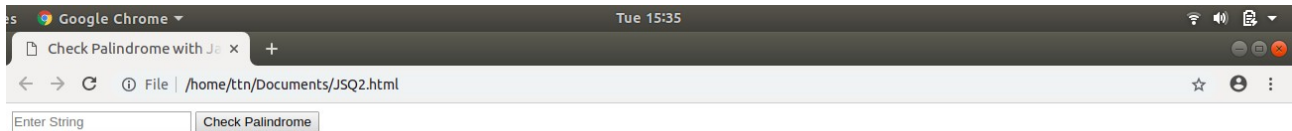
Q2.

Code:

```html
<html>
<head>
    <title>Check Palindrome with JavaScript</title>
    <script>

        function myFunction()
        {

            var str = document.getElementById('txtbox').value;


            var result = checkPalindrome(str);
            alert('The Entered String "'+str +'" is "'+result+'"');
        }

        function checkPalindrome(str)
        {
            var orignalStr;


            str = str.toLowerCase();


            orignalStr = str;


            str = str.split('');
            str = str.reverse();
            str = str.join('');
```

```
            var reverseStr = str;


            if(orignalStr == reverseStr){
                return 'Palindrome';
            }else{
                return 'Not Palindrome';
            }
        }
    </script>
</head>
<body>
    <form method="get">

        <input type="text" id="txtbox" placeholder="Enter String" />
        <input type="button" onclick="myFunction()" value="Check
Palindrome" />
    </form>
</body>
</html>
```
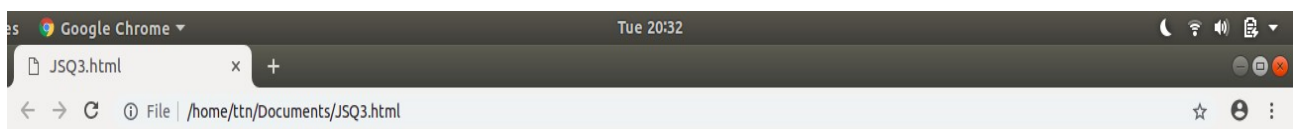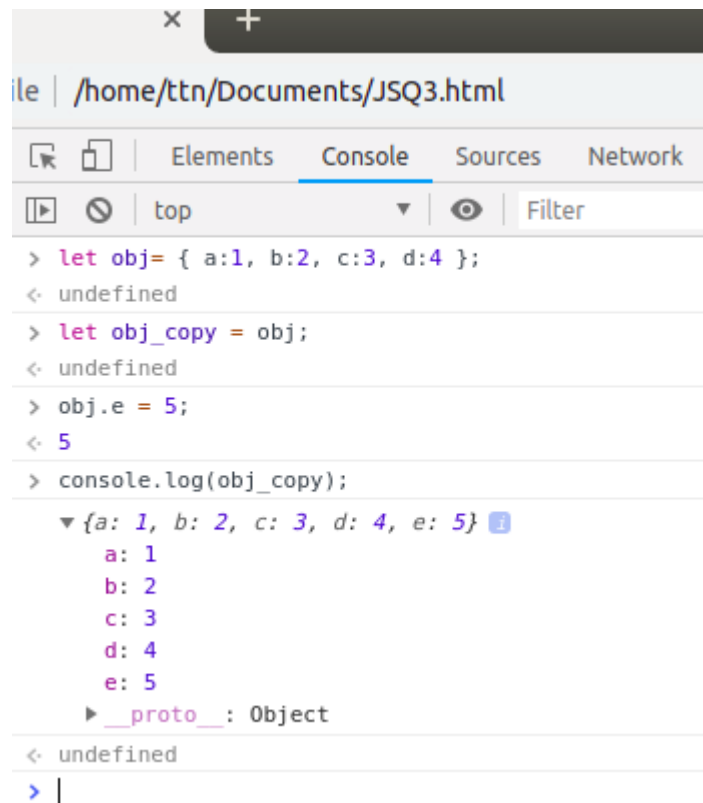
Q3.

Area of circle

Radius: 1

Calculate

Area of Circle: 3.14

Code:

```
<!DOCTYPE html>
<html>
<head>
<script>
function ar_of_cir() {
var r = document.getElementById("r").value
var ar=(3.14*r*r)
document.getElementById("ans").value = ar
}
</script>
</head>
<body>
<h1 align="center">
Area of circle</h1>
<hr>
<center>
<form>
<br>
<br>
Radius: <input type="number" id="r"><br>
<br><br>
<br>
<input type="button" value="Calculate" onclick="ar_of_cir()">
<br>
<br><br>
<br>

Area of Circle:
<input type="number" id="ans">
</form>
</center>
</body>
</html>
```

Q4.

Code:

```
let obj= { a:1, b:2, c:3, d:4 };        // Press Enter

let obj_copy = obj;                      // Press Enter

obj.e = 5;                               // Press Enter

console.log(obj_copy);                    // Press Enter
```

Q5.

List of Employees are:-

Name: Amit Age: 40 Salary: 5500$ Date of Birth: 01-01-1980

Name: Pritam Age: 25 Salary: 8000$ Date of Birth: 23-12-1993

Name: Tarun Age: 50 Salary: 4500$ Date of Birth: 26-02-1970

Name: Tanya Age: 20 Salary: 5000$ Date of Birth: 05-10-1998

Name: Chet Age: 25 Salary: 2500$ Date of Birth: 18-05-1993

Name: Prem Age: 25 Salary: 380$ Date of Birth: 14-11-1993

Employee(s) having salary more than 5000$:-

Amit
Pritam

Employee(s) grouped by age:-

Amit is older
Tarun is older

Pritam is younger
Tanya is younger
Chet is younger
Prem is younger

Employee(s) having salary less than 1000$ and age greater than 20yrs :-

Prem

AND now their salaries are incremented by 5 times:-

After increment salary of Prem is 1520$

Code:

```
<html>
<head>

<script>
(function() {
  'use strict';
    var Employee=[{name:"Amit",age:40,salary:5500,dob:"01-01-1980"},
   {name:"Pritam",age:25,salary:8000,dob:"23-12-1993"},
   {name:"Tarun",age:50,salary:4500,dob:"26-02-1970"},
   {name:"Tanya",age:20,salary:5000,dob:"05-10-1998"},
   {name:"Chet",age:25,salary:2500,dob:"18-05-1993"},
   {name:"Prem",age:25,salary:380,dob:"14-11-1993"}];

document.write("<br> List of Employees are:- <br><hr>")
    for(var emp in Employee)
        document.write("Name: "+Employee[emp].name+" Age:
"+Employee[emp].age+" Salary: "+Employee[emp].salary+ "$" + " Date of
Birth: "+Employee[emp].dob+"<br><br>");
    document.write(" <br><br>Employee(s) having salary more than 5000$:-
<br><hr>");
    for(var emp in Employee)
    {if((Employee[emp].salary)>5000)
        document.write(Employee[emp].name + "<br>");
    }

    document.write("<br><br>Employee(s) grouped by age:- ");
    document.write("<hr>");
    for(var emp in Employee)
    {if((Employee[emp].age)>35)
        document.write(Employee[emp].name+" is older <br>");
    }
    document.write("<hr>");
    for(var emp in Employee)
    {if((Employee[emp].age)<=35)
        document.write(Employee[emp].name+" is younger <br>");
    }
  document.write("<br><br>Employee(s) having salary less than 1000$ and
age greater than 20yrs :- <br><hr>");
    for(var emp in Employee)
    {if((Employee[emp].age)>20 && (Employee[emp].salary)<1000 )
  {document.write(Employee[emp].name+"<br><br>");
document.write("<br>AND now their salaries are incremented by 5 times:-
<br><hr>")
    Employee[emp].salary=Employee[emp].salary*4;
  document.write("After increment salary of " + Employee[emp].name + " is "
+ Employee[emp].salary + "$");
```

```
    }
      }
}
 ()
);
</script>
</head>
</body>
```