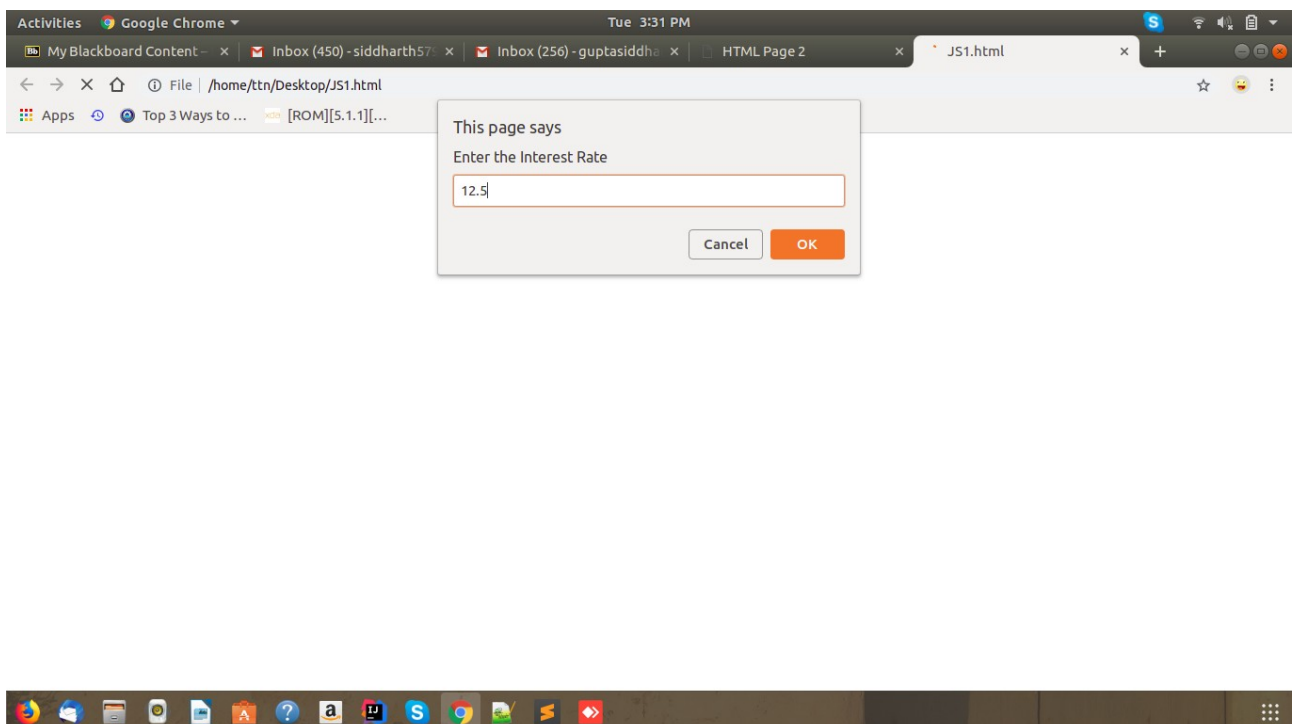
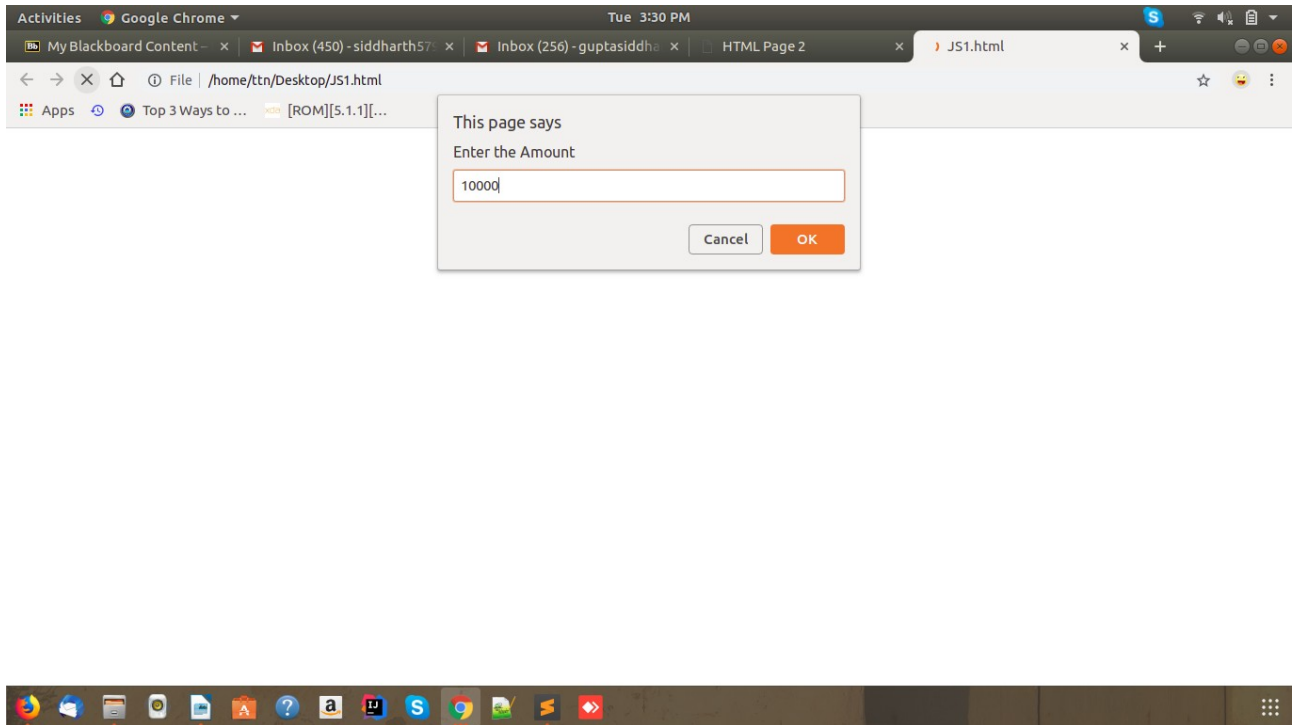
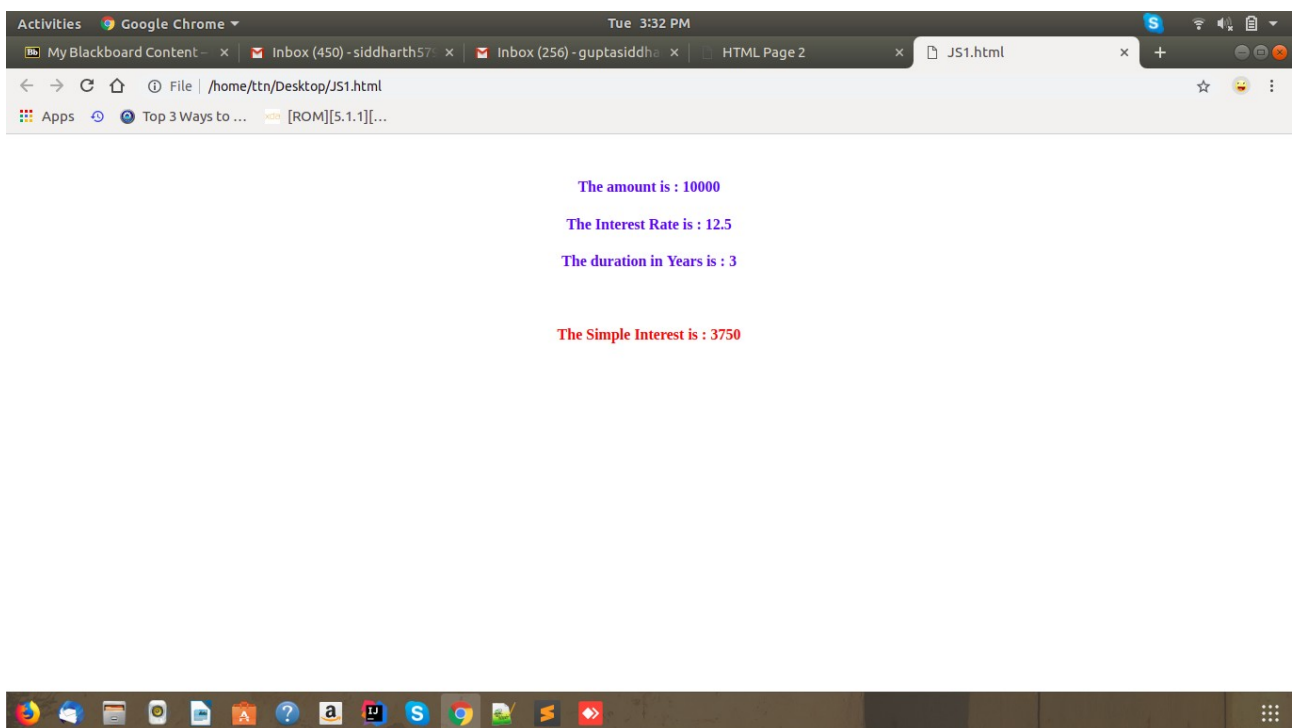
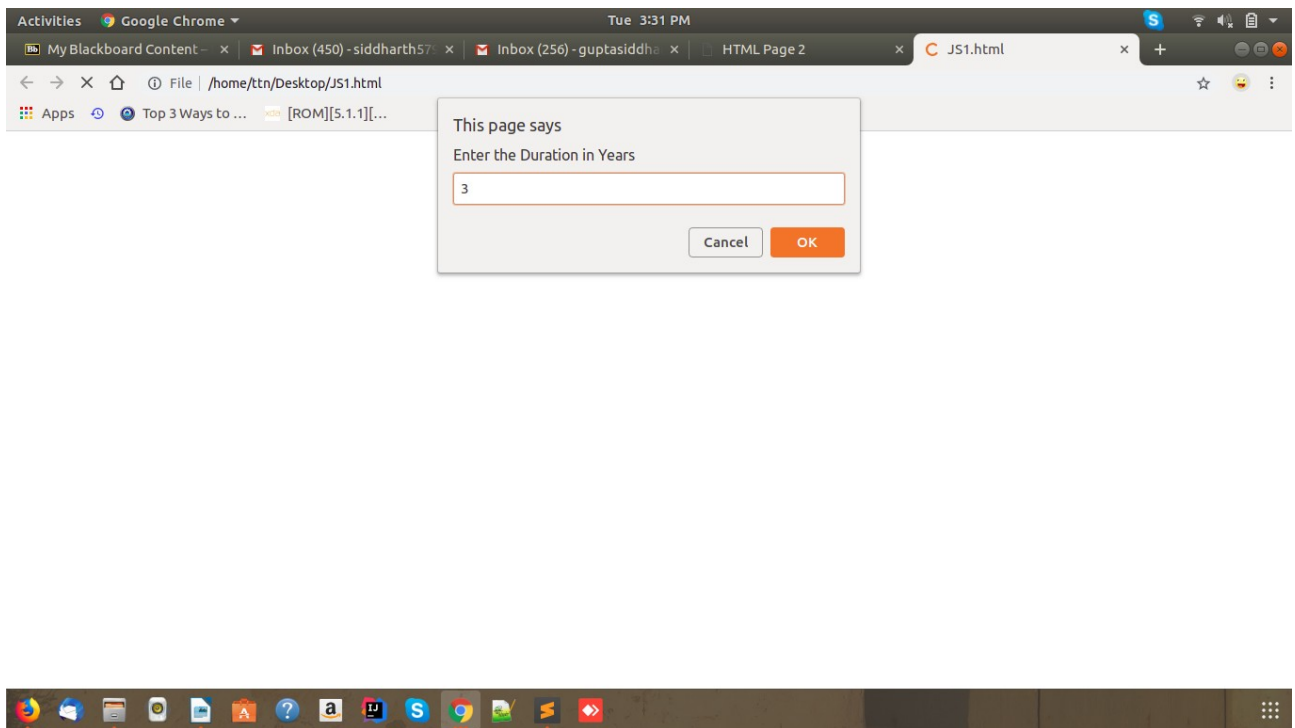


# JAVASCRIPT Assignment (By: Siddharth Gupta)

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

Ans.





```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title></title>
```

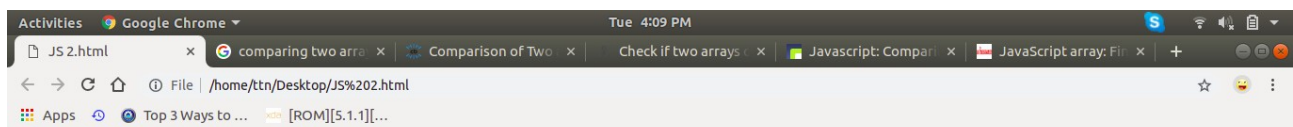
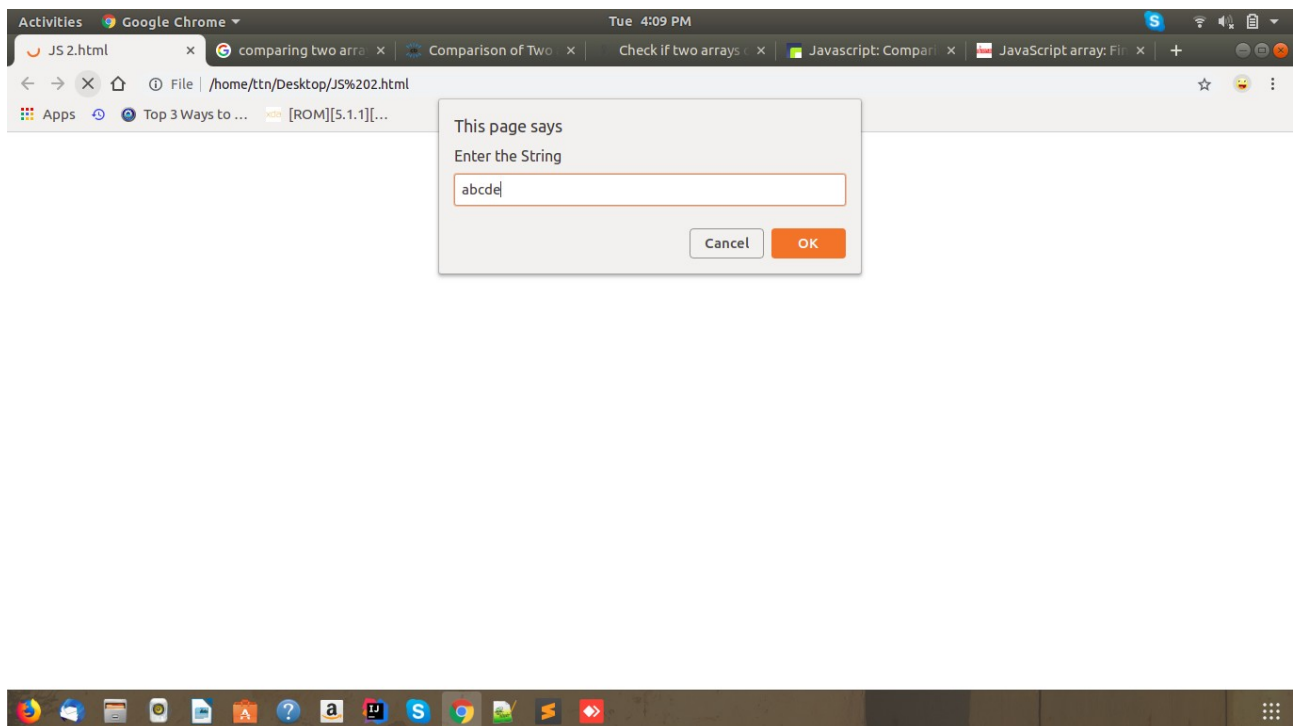
```
    <style type="text/css">
```

```
        h4{
```

```
        color: blue;
        text-align: center;
    }
</style>
</head>
<body><br>
    <h4> The amount is : <span id="amount"></span></h4>
    <h4>The Interest Rate is : <span id="ir"></span></h4>
    <h4>The duration in Years is : <span id="duration"></span></h4><br>
    <h4 style="color: red">The Simple Interest is : <span id="si"></span> </h4>
<script type="text/javascript">
    var a=prompt("Enter the Amount");
    var r=prompt("Enter the Interest Rate");
    var t=prompt("Enter the Duration in Years");
    var si=(a*r*t)/100;
    document.getElementById('amount').innerHTML=a;
    document.getElementById('ir').innerHTML=r;
    document.getElementById('duration').innerHTML=t;
    document.getElementById('si').innerHTML=si;
</script>
</body>
</html>
```

## 2. is palindrome string

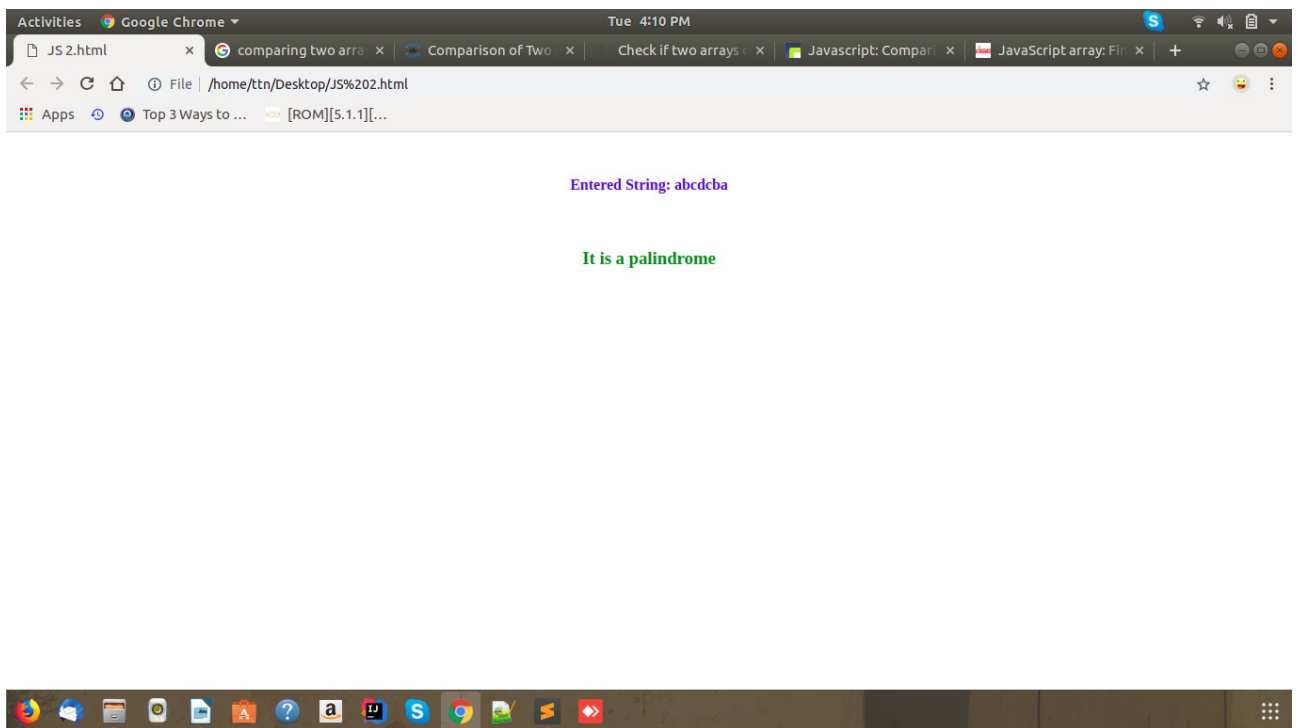
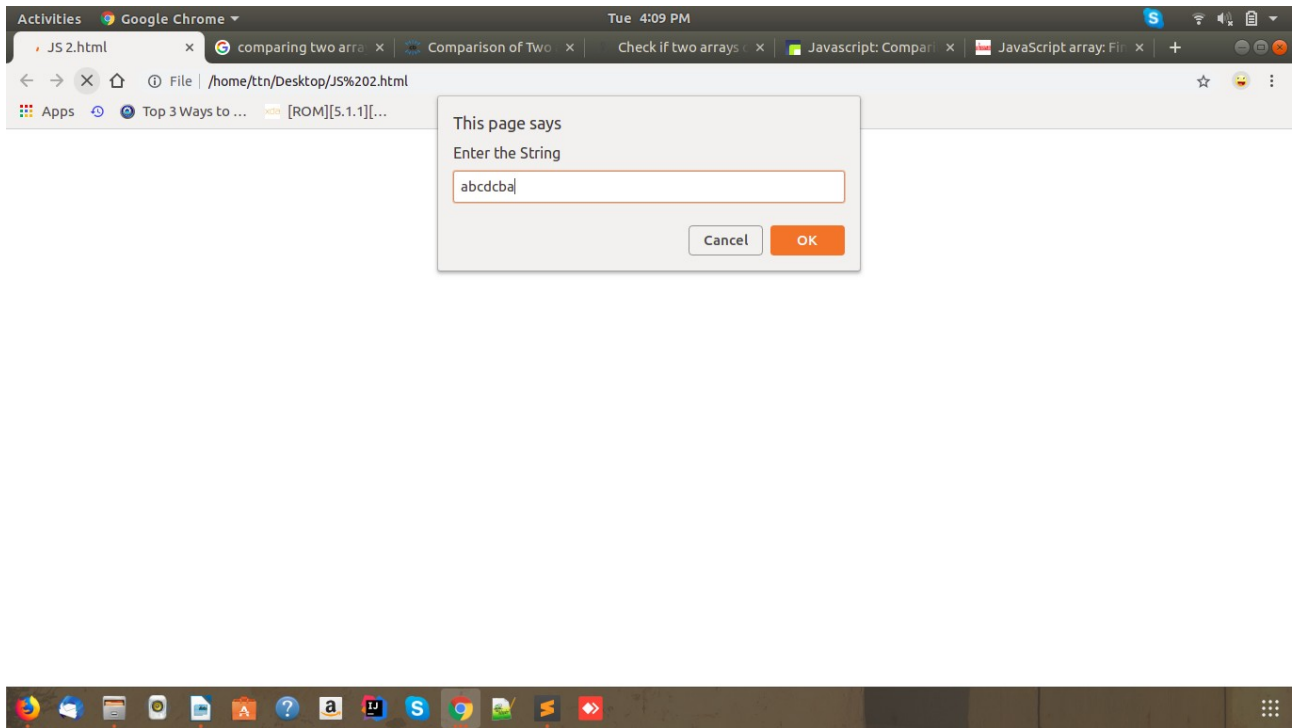
Ans.



Entered String: abcde

It is a Not a palindrome





```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <title></title>
```

```
    <style type="text/css">
```

```
        h4{
```

```
        color: blue;

        text-align: center;

    }

</style>

</head>

<body><br>

    <h4> Entered String: <span id="string"></span></h4>

    <br>

    <h3 style="color: green;text-align: center;"> <span id="result"></span> </h3>

    <h3 style="color: red;text-align: center;"> <span id="nresult"></span> </h3>

<script type="text/javascript">

    var a=prompt("Enter the String");
    var b=a.split("");
    var c=b.slice();
    b.reverse();
    var d=b.join("");
    var e=c.join("");
    document.getElementById('string').innerHTML=a;
    if(d==e)
    {

        document.getElementById('result').innerHTML="It is a palindrome";

    }
    else
    {

        document.getElementById('nresult').innerHTML="It is a Not a palindrome";

    }

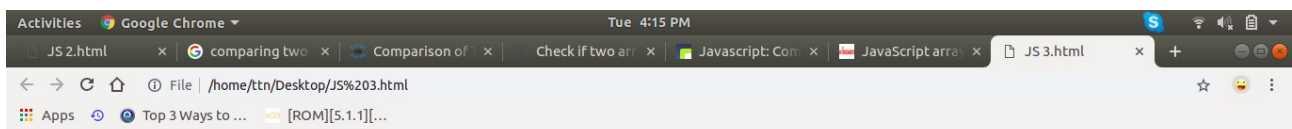
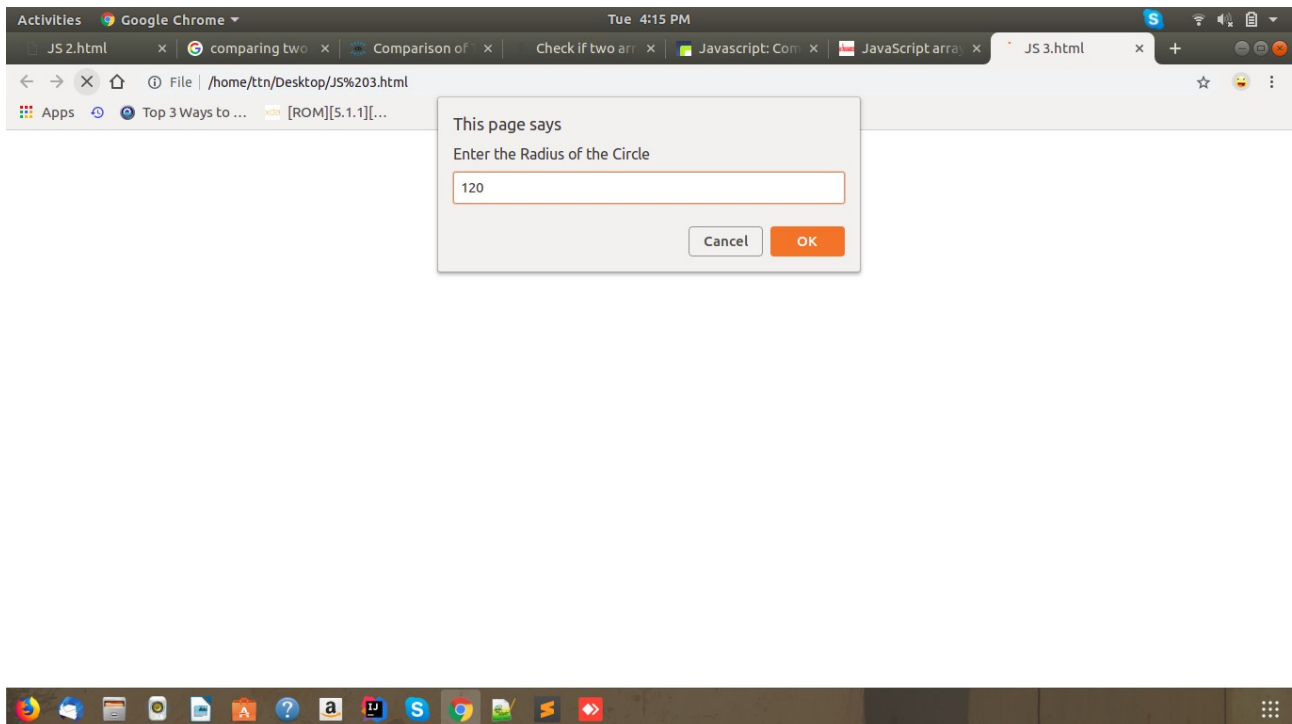
</script>

</body>

</html>
```

### 3. Area of circle

Ans.



```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <title></title>
```

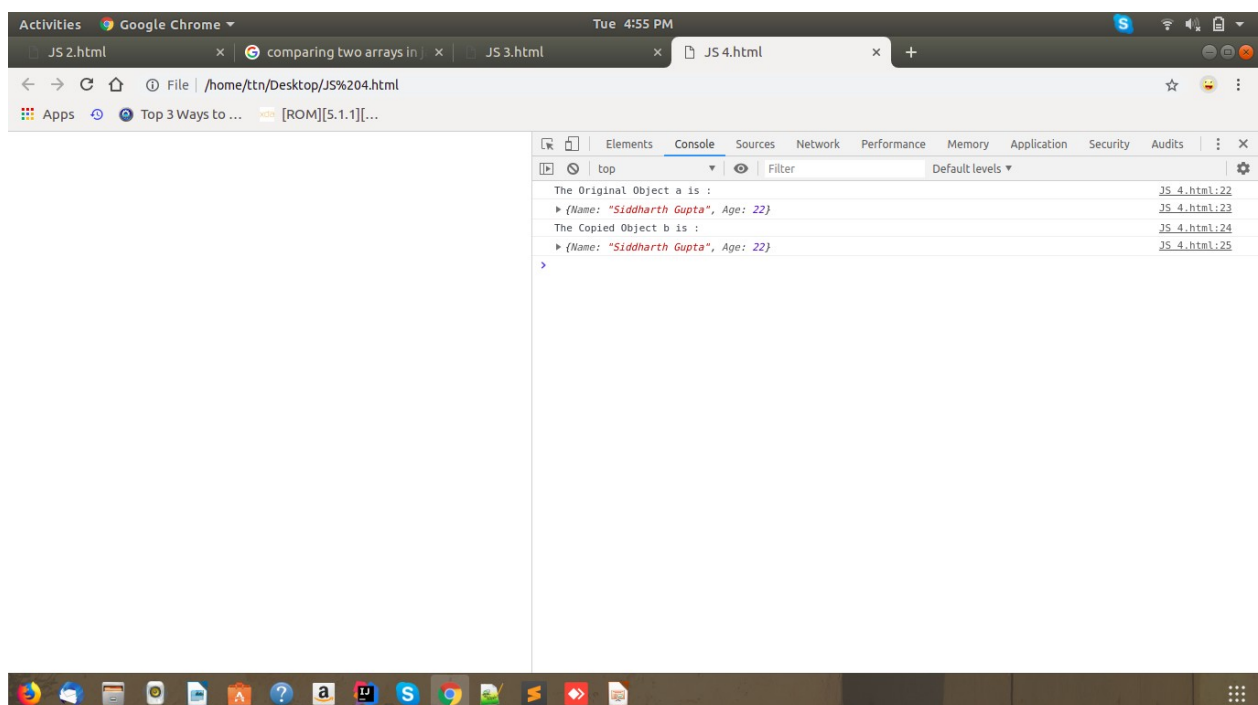
```

<style type="text/css">
    h4{
        color: blue;
        text-align: center;
    }
</style>
</head>
<body><br>
    <h4> The Radius is : <span id="Radius"></span></h4>
    <h4 style="color: red">The Area of circle is : <span id="area"></span> </h4>
<script type="text/javascript">
    var a=prompt("Enter the Radius of the Circle");
    var area=(22*a*a)/7;
    document.getElementById('Radius').innerHTML=a;
    document.getElementById('area').innerHTML=area;
</script>
</body>
</html>

```

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

Ans.





```
<!DOCTYPE html>
<html>
<head>
  <title></title>
</head>
<body>
<script type="text/javascript">
  var a={
    Name : "Siddharth Gupta",
    Age : 22
  };
  var b={};
  function copyObject(t,s)
  {
    for(i in s) {
      t[i] = s[i];
    }
    return t;
  }
  copyObject(b,a);
  console.log("The Original Object a is : ")
  console.log(a);
  console.log("The Copied Object b is : ")
  console.log(b);
</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.**

The screenshot shows a Google Chrome browser window with the address bar displaying `/home/ttn/Desktop/JS%205.html`. The page contains a simple form with four input fields labeled **Name**, **Age**, **Salary**, and **DOB**. Below these fields are two buttons: **Add a New User** and **Perform Actions**.

**Users with salary More than 5000 :**

Name	Age	Salary	DOB
------	-----	--------	-----

**Grouping by age :**

Name	Age	Salary	DOB
------	-----	--------	-----

**Increment Salary by 5x of users with age more than 20yrs and Salary less than 1000 :**

Name	Age	Salary	DOB
------	-----	--------	-----

The screenshot shows the same Google Chrome browser window, but the form fields are replaced by a table of employee data. The table has four columns: **Name**, **Age**, **Salary**, and **DOB**. The data rows are as follows:

Name	Age	Salary	DOB
Siddharth	22	10000	05/07/1997
Gaurav	22	4000	27/02/1997
Yatin	21	4500	02/08/1994

Below the table, the **Add a New User** and **Perform Actions** buttons are still present.

**Users with salary More than 5000 :**

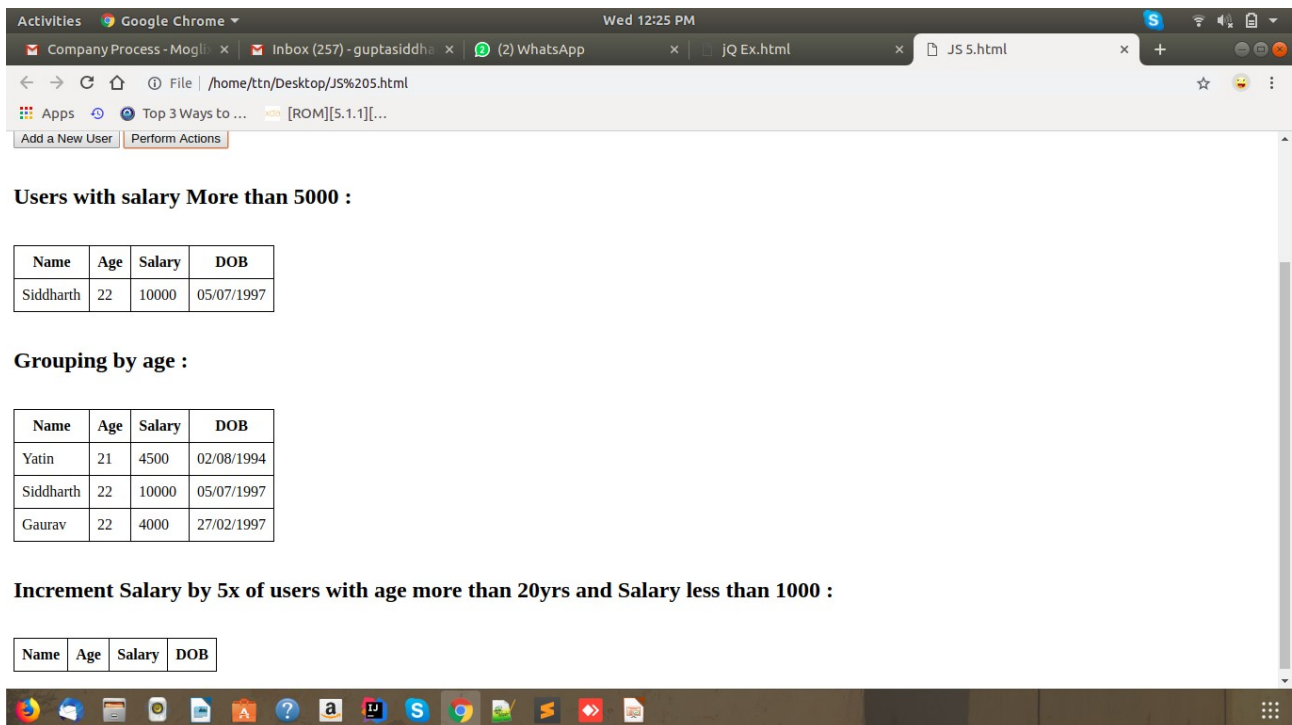
Name	Age	Salary	DOB
------	-----	--------	-----

**Grouping by age :**

Name	Age	Salary	DOB
------	-----	--------	-----

**Increment Salary by 5x of users with age more than 20yrs and Salary less than 1000 :**

Name	Age	Salary	DOB
------	-----	--------	-----



```
<!DOCTYPE html>
<html>
<head>
  <title></title>
<style type="text/css">
  table,td,th
  {
    border: 1px solid;
    padding: 8px;
    border-collapse: collapse;
  }
</style>
</head>
<body>
  <table id="MainTable" style="">
    <tr>
      <th>Name</th>
      <th>Age</th>
      <th>Salary</th>
      <th>DOB</th>
    </tr>
  </table><br>
  <button onclick="addUser()" name="Add User"> Add a New User </button>
  <button onclick="performAction()">Perform Actions </button><br><br>
  <h2>Users with salary More than 5000 :</h2><br>
  <table style="border: 1px solid" id="FilterTable">
    <tr>
      <th>Name</th>
```

```

        <th>Age</th>
        <th>Salary</th>
        <th>DOB</th>
    </tr>
</table><br>
<h2>Grouping by age :</h2><br>
<table style="border: 1px solid" id="FilterTable1">
    <tr>
        <th>Name</th>
        <th>Age</th>
        <th>Salary</th>
        <th>DOB</th>
    </tr>
</table><br>
<h2>Increment Salary by 5x of users with age more than 20yrs and Salary less than 1000 :</
h2><br>
<table style="border: 1px solid" id="FilterTable2">
    <tr>
        <th>Name</th>
        <th>Age</th>
        <th>Salary</th>
        <th>DOB</th>
    </tr>
</table><br>
<script type="text/javascript">
var a=[];

function addUser()
{
    var name=prompt("Enter the name of the user");
    var age=prompt("Enter the age of the user");
    var salary=prompt("Enter the salary of the user");
    var DOB=prompt("Enter the DOB of the user");
    var obj={};
    obj['Name']=name;
    obj['Age']=age;
    obj['Salary']=salary;
    obj['DOB']=DOB;
    a.push(obj);
    var
str='<tr><td>'+name+'</td>'+<td>'+age+'</td>'+<td>'+salary+'</td>'+<td>'+DOB+'</td></tr>';
    document.getElementById('MainTable').innerHTML += str;
}

var rich=[];
var group=[];
var salInc=[];

function performAction()
{
    for(i=0;i<a.length;i++)
    {

```

```

        if(a[i]['Salary']>5000)
        {
            rich.push(a[i]);
        }
    }

    for(i=0;i<rich.length;i++)
    {
        var
str1='<tr><td>'+rich[i]['Name']+'</td>'+<td>'+rich[i]['Age']+'</td>'+<td>'+rich[i]['Salary']+'</
td>'+<td>'+rich[i]['DOB']+'</td></tr>';
        document.getElementById('FilterTable').innerHTML += str1;
    }

    for(i=0;i<a.length;i++)
    {
        group.push(a[i]);
    }
    function compare(a,b)
    {
        if (a.Age < b.Age)
            return -1;
        if (a.Age > b.Age)
            return 1;
        return 0;
    }

    group.sort(compare);
    for(i=0;i<group.length;i++)
    {
        var str2='<tr><td>'+group[i]['Name']+'</td>'+<td>'+group[i]['Age']+'</
td>'+<td>'+group[i]['Salary']+'</td>'+<td>'+group[i]['DOB']+'</td></tr>';

        document.getElementById('FilterTable1').innerHTML += str2;
    }

    for(i=0;i<a.length;i++)
    {
        if(a[i]['Salary']<1000 && a[i]['Age']>20)
        {
            salInc.push(a[i]);
        }
    }

    for(i=0;i<salInc.length;i++)
    {
        var str3='<tr><td>'+salInc[i]['Name']+'</td>'+<td>'+salInc[i]['Age']+'</
td>'+<td>'+salInc[i]['Salary']*5+'</td>'+<td>'+salInc[i]['DOB']+'</td></tr>';
        document.getElementById('FilterTable2').innerHTML += str3;
    }

```

}

</script>

</body>

</html>