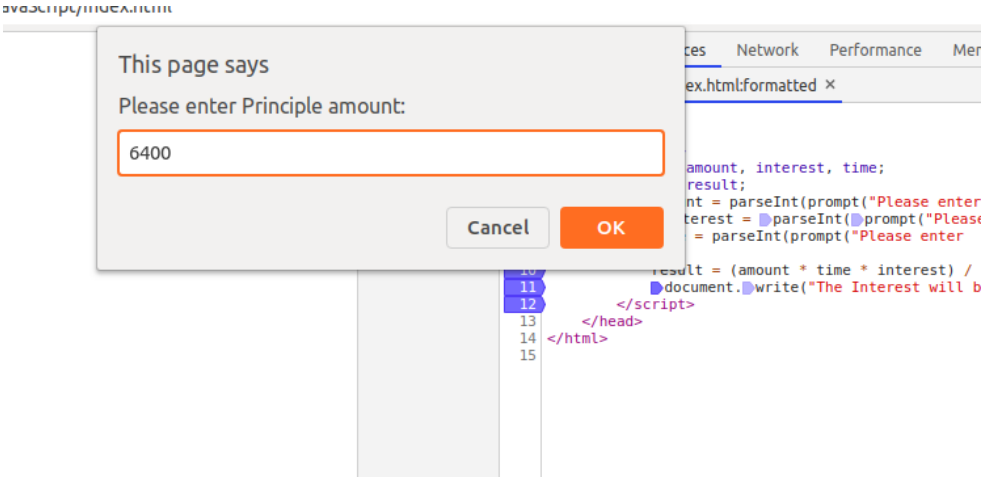
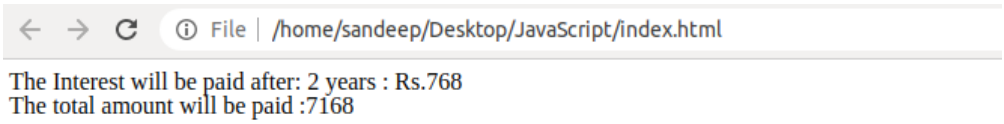
1. Prompt for amount, interest rate and no. of years and calculate simple interest.

Scripts:

```
<html>
<head>
        <script>
        var amount, interest, time;
        var result;
amount = parseInt(prompt("Please enter Principle amount:"));
interest = parseInt(prompt("Please enter Interest Rate :"));
time = parseInt(prompt("Please enter  years:"));


result = (amount*time*interest)/100;
document.write("The Interest will be paid after: "+time+" years : Rs."+result+" <br> The total amount will be paid :"+(amount+result));
        </script>
</head>
</html>
```

Output:



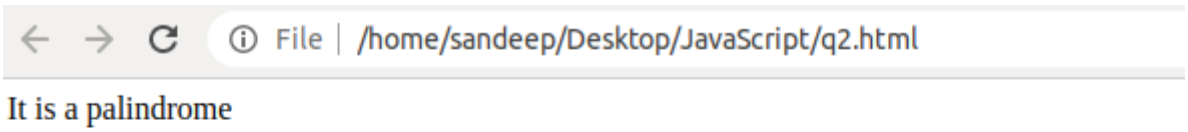


2. is palindrome string

Scripts

```
<html>
<head>
	<script>
var word = " bob ";
var reg = /\s/g;
var w  = word.toLowerCase().replace(reg,'');
var reverse = w.split('').reverse().join('');
if(w == reverse)
{
	document.write("It is a palindrome ");
}
else
{
	document.write("It is not a palindrome ");
}
</script>
</head>
</html>
```

Output:

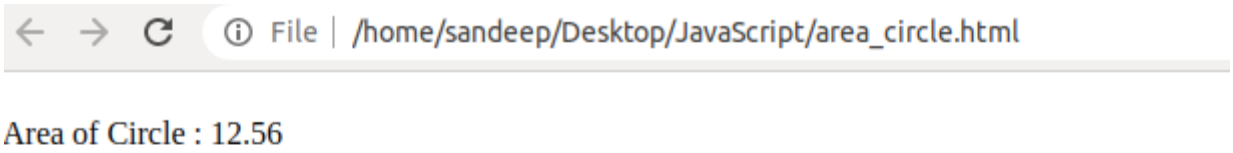


Q3. Area of circle

Scripts

```
<html>
<head>
	<script>
		var radius = window.prompt("Please enter a radius of a circle");
		function circleArea(radius){
			return 3.14*radius*radius;
		}
var area = circleArea(radius);
document.write("<br> Area of Circle : "+area);
</script>
</head>
</html>
```

Output:



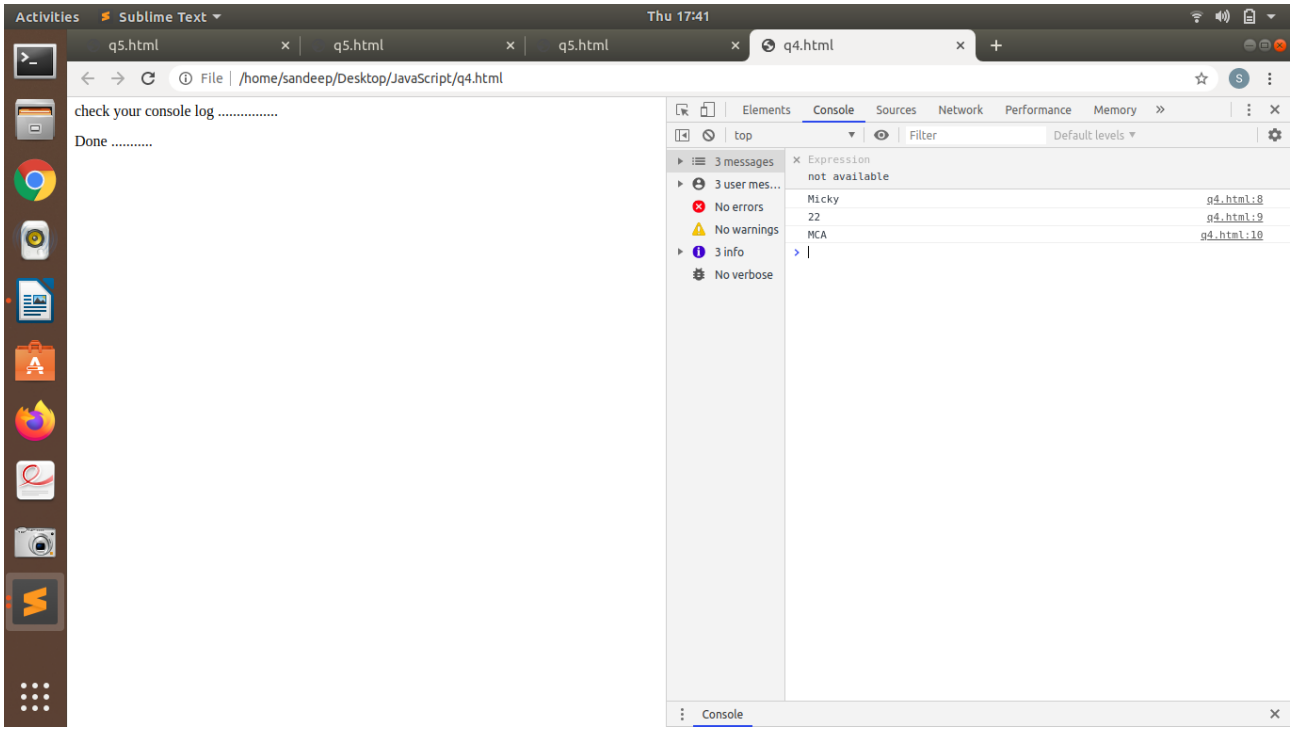
Area of Circle : 12.56

Q4. Copy information of one object to another and log it to console.

Scripts:

```
<html>
<head>
        <script>
var friends = {name:"Micky", Age:"22", graduation:"MCA"};
document.write("check your console log .....<br><br>");
var copy = friends;
console.log(copy.name);
document.write("Done ..... ");
</script>
</head>
</html>
```

Output:


Activities
Sublime Text
Thu 17:41
q5.html
q5.html
q5.html
q4.html
File
/home/sandeep/Desktop/JavaScript/q4.html
check your console log .....
Done .....
Elements
Console
Sources
Network
Performance
Memory
top
Filter
Default levels
3 messages
3 user mes...
No errors
No warnings
3 info
No verbose
Expression
not available
Micky
q4.html:8
22
q4.html:9
MCA
q4.html:10
Console

Q5. 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.**

Script:

```
<html>
<head>
</head>
<body>

<button onclick="printMe()">Print list</button>

<button onclick="filter_me()">Salary less than 5000</button>
<button onclick="group_me()">Group Me</button>
<button onclick="increment_salary()">Increment Salary</button>

        <script>
var i;
var Employee = [
  {
    name: "Sandeep",
    Age: 22,
    Salary: 15500,
    DOB: '22-Dec-1996'
  },
  {
   name: "Neha",
    Age: 23,
    Salary: 15500,
    DOB: '31-Mar-1995'
  },
  {
    name: "Akshita",
    Age: 34,
    Salary: 15500,
    DOB: '22-Dec-1988'
  },
    {
    name: "Shreya",
    Age: 24,
    Salary: 2500,
    DOB: '22-Dec-1988'
```

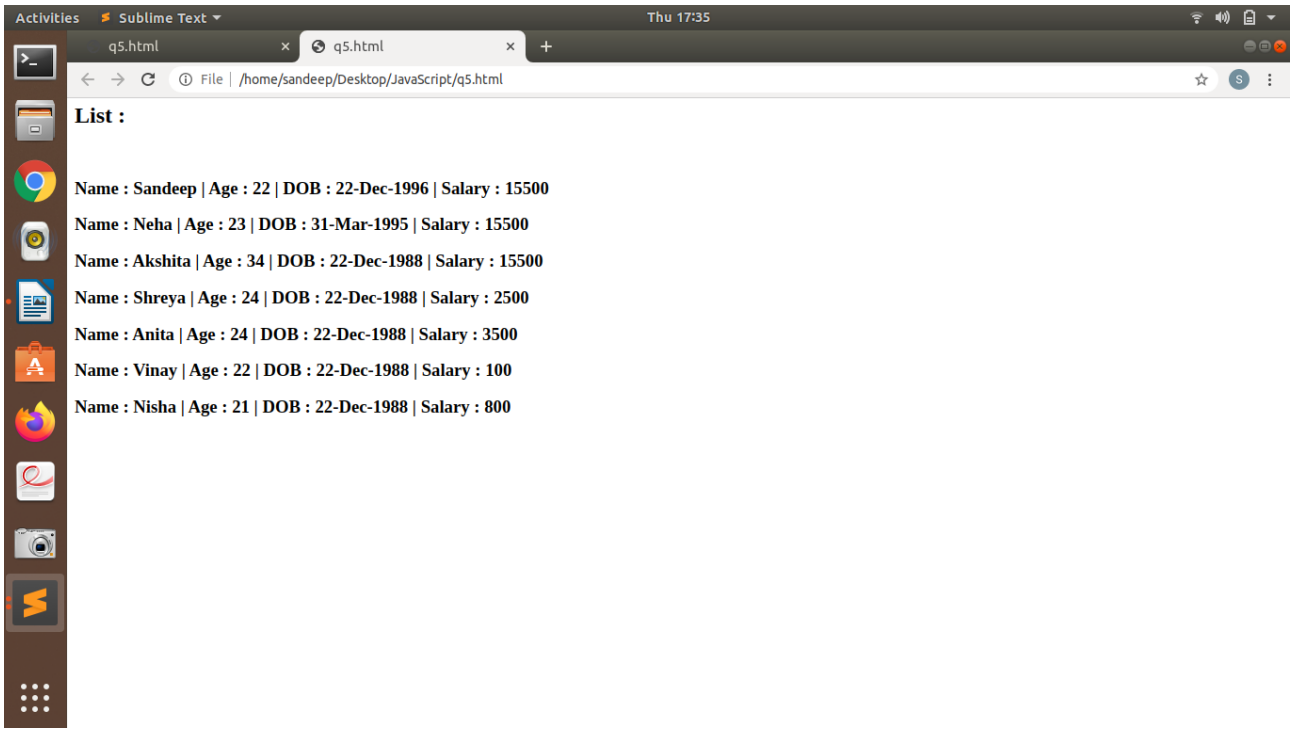
```
  }
    , {
    name: "Anita",
    Age: 24,
    Salary: 3500,
    DOB: '22-Dec-1988'
  }
  , {
    name: "Vinay",
    Age: 22,
    Salary: 100,
    DOB: '22-Dec-1988'
  }
  , {
    name: "Nisha",
    Age: 21,
    Salary: 800,
    DOB: '22-Dec-1988'
  }
];


function printMe(){
 document.write(" <h2>List :</h2> <br>");
   var word;
for(i=0;i< Employee.length;i++)
{

document.write(" <h3> Name :  "+Employee[i].name+" |  Age :  "+Employee[i].Age+" |
DOB  : "+Employee[i].DOB+" |  Salary :  "+Employee[i].Salary+"</h3>");
}

}







function filter_me()
{
document.write(" <h2>The employees having salary greater than Rs. 5000:</h2> <br>");

//filtering
var filtered =  Employee.filter(function(a) {
          return a.Salary > 5000;
})


for(i=0;i< filtered.length;i++)
{
```

```
document.write(" <h3> Name :  "+filtered[i].name+" |  Age :  "+filtered[i].Age+" |   DOB  :
"+filtered[i].DOB+"</h3>")

}



/* Alternate way

for(i=0;i< Employee.length;i++)
{
if(Employee[i].Salary < 5000)
{
document.write(" <h3> Name :  "+Employee[i].name+" |  Age :  "+Employee[i].Age+" |
DOB  : "+Employee[i].DOB+"</h3>")

}
}*/

}

function group_me()
{
var GroupMe = Employee;

// grouping
document.write(" <h2>Sorting ..... </h2> ");
GroupMe.sort(function(a, b){
    return a.Age - b.Age;
});



let groopedData = GroupMe.reduce((r, a) => {
 r[a.Age] = [...r[a.Age] || [], a];
 return r;
}, {});
console.log(groopedData)
}




function increment_salary()
{
// Fetch employees having salary less than 5000 as well as age more than 20, and
increment their by 5 times
document.write(" <h2>Before Incrementing </h2> ");

for(i=0;i< Employee.length;i++)
{
```

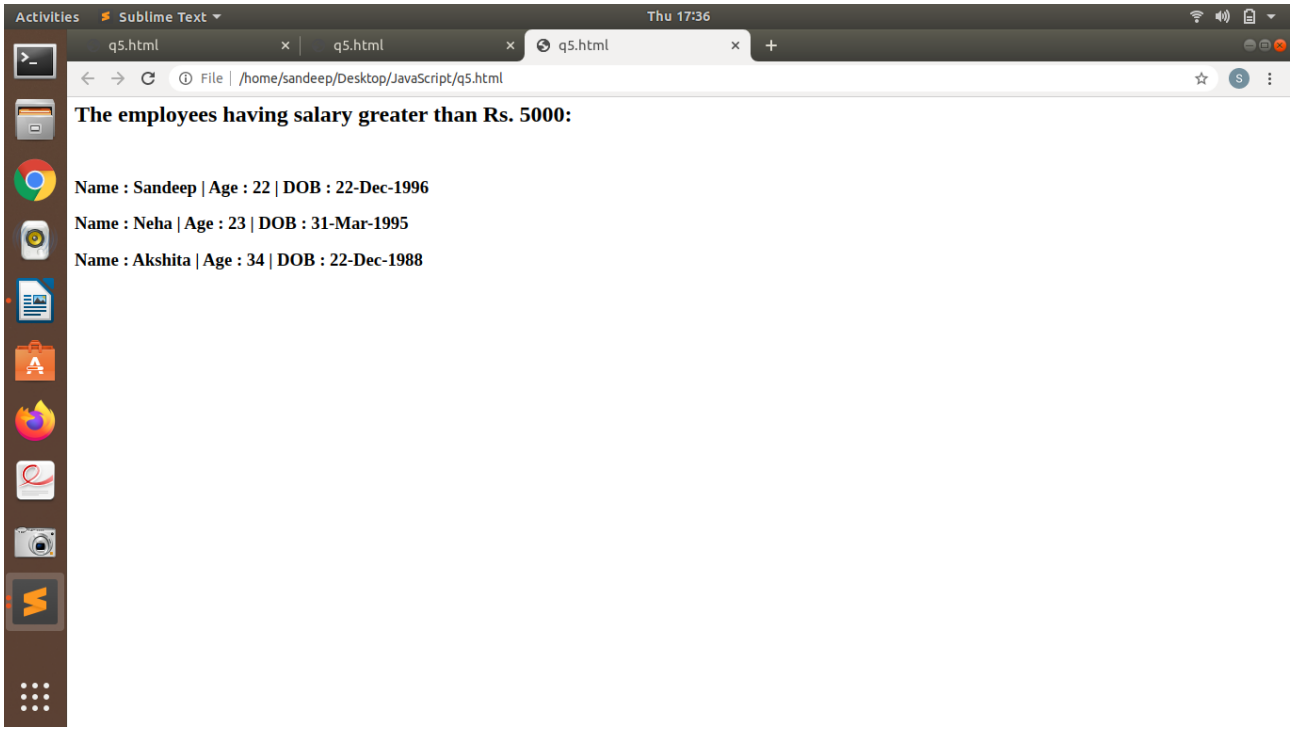
```
document.write("<h3>  Name :  "+Employee[i].name+" |  Age :  "+Employee[i].Age+" |
DOB  : "+Employee[i].Salary+"</h3>");
}


document.write(" <h2>The employees having salary less than Rs. 1000 and age more
than 20 years will get incremented salary from now :</h2> ");
for(i=0;i< Employee.length;i++)
{
if(Employee[i].Salary < 1000 && Employee[i].Age > 20 )
{

        Employee[i].Salary =  Employee[i].Salary*5 ;

}


}

for(i=0;i< Employee.length;i++)
{

document.write(" <h3> Name :  "+Employee[i].name+" |  Age :  "+Employee[i].Age+" |
DOB  : "+Employee[i].Salary+"</h3>");
}


}



</script>



</body>
</html>
```

Output:

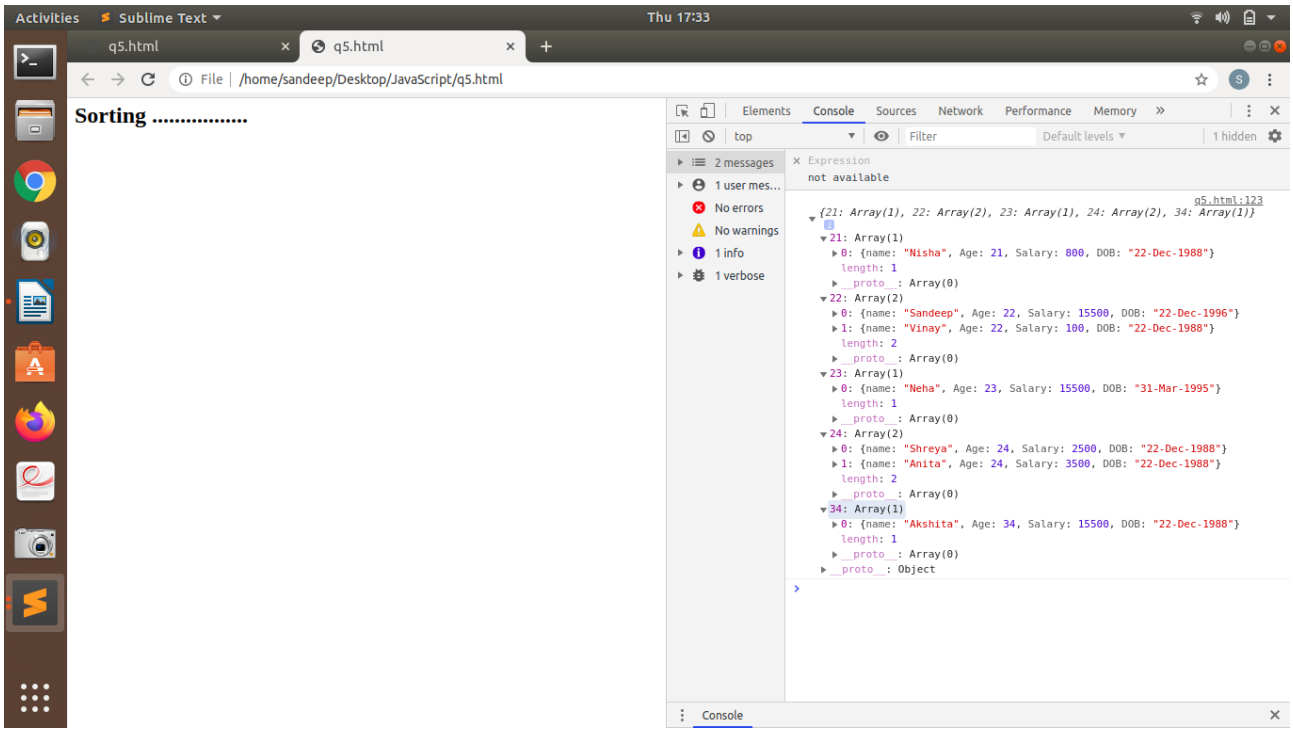
i)


Activities
Sublime Text
Thu 17:35
q5.html
q5.html
File | /home/sandeep/Desktop/JavaScript/q5.html
List :
Name : Sandeep | Age : 22 | DOB : 22-Dec-1996 | Salary : 15500
Name : Neha | Age : 23 | DOB : 31-Mar-1995 | Salary : 15500
Name : Akshita | Age : 34 | DOB : 22-Dec-1988 | Salary : 15500
Name : Shreya | Age : 24 | DOB : 22-Dec-1988 | Salary : 2500
Name : Anita | Age : 24 | DOB : 22-Dec-1988 | Salary : 3500
Name : Vinay | Age : 22 | DOB : 22-Dec-1988 | Salary : 100
Name : Nisha | Age : 21 | DOB : 22-Dec-1988 | Salary : 800

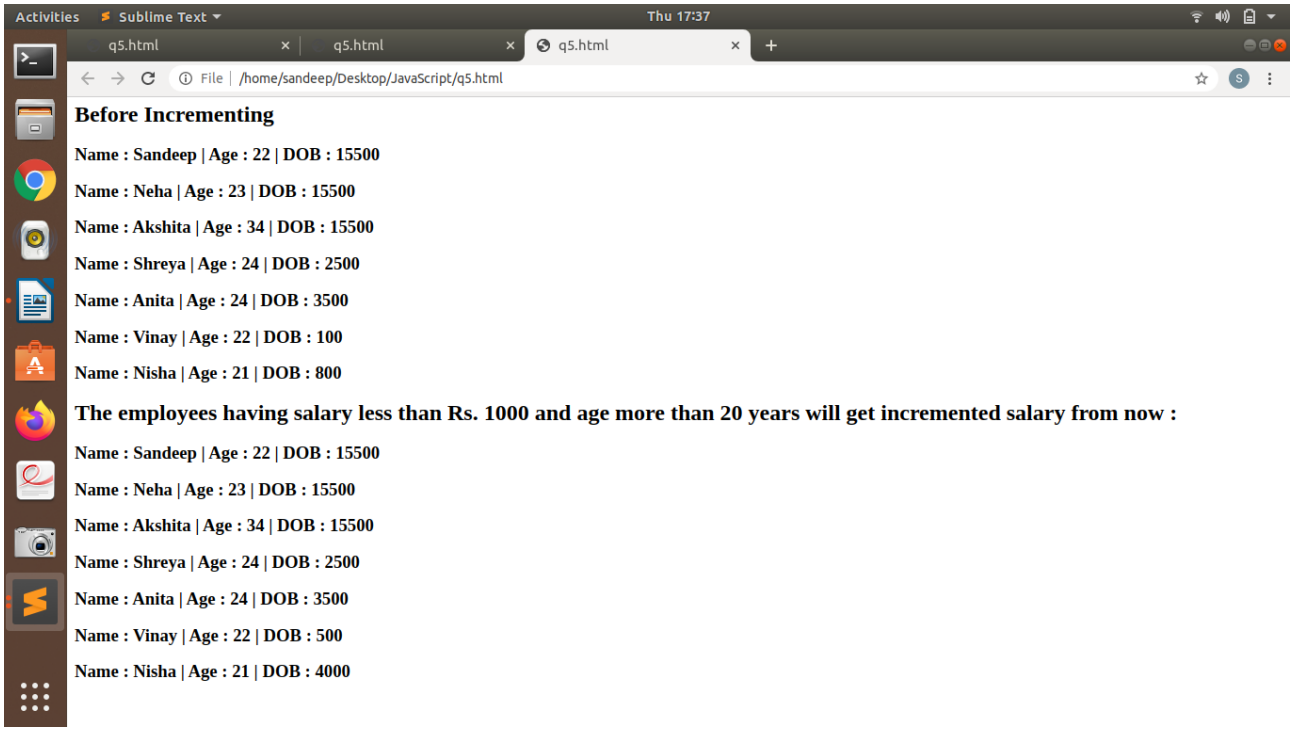
ii)


Activities
Sublime Text
Thu 17:36
q5.html
q5.html
q5.html
File | /home/sandeep/Desktop/JavaScript/q5.html
The employees having salary greater than Rs. 5000:
Name : Sandeep | Age : 22 | DOB : 22-Dec-1996
Name : Neha | Age : 23 | DOB : 31-Mar-1995
Name : Akshita | Age : 34 | DOB : 22-Dec-1988

iii)


Activities
Sublime Text
Thu 17:33
q5.html
q5.html
File | /home/sandeep/Desktop/JavaScript/q5.html
Sorting .....
Elements
Console
Sources
Network
Performance
Memory
top
Filter
Default levels
1 hidden
2 messages
1 user mes...
No errors
No warnings
1 info
1 verbose
Expression
not available
q5.html:123
{21: Array(1), 22: Array(2), 23: Array(1), 24: Array(2), 34: Array(1)}
21: Array(1)
0: {name: "Nisha", Age: 21, Salary: 800, DOB: "22-Dec-1988"}
length: 1
__proto__: Array(0)
22: Array(2)
0: {name: "Sandeep", Age: 22, Salary: 15500, DOB: "22-Dec-1996"}
1: {name: "Vinay", Age: 22, Salary: 100, DOB: "22-Dec-1988"}
length: 2
__proto__: Array(0)
23: Array(1)
0: {name: "Neha", Age: 23, Salary: 15500, DOB: "31-Mar-1995"}
length: 1
__proto__: Array(0)
24: Array(2)
0: {name: "Shreya", Age: 24, Salary: 2500, DOB: "22-Dec-1988"}
1: {name: "Anita", Age: 24, Salary: 3500, DOB: "22-Dec-1988"}
length: 2
__proto__: Array(0)
34: Array(1)
0: {name: "Akshita", Age: 34, Salary: 15500, DOB: "22-Dec-1988"}
length: 1
__proto__: Array(0)
__proto__: Object
Console

iv)


Activities
Sublime Text
Thu 17:37
q5.html
q5.html
q5.html
File | /home/sandeep/Desktop/JavaScript/q5.html
Before Incrementing
Name : Sandeep | Age : 22 | DOB : 15500
Name : Neha | Age : 23 | DOB : 15500
Name : Akshita | Age : 34 | DOB : 15500
Name : Shreya | Age : 24 | DOB : 2500
Name : Anita | Age : 24 | DOB : 3500
Name : Vinay | Age : 22 | DOB : 100
Name : Nisha | Age : 21 | DOB : 800
The employees having salary less than Rs. 1000 and age more than 20 years will get incremented salary from now :
Name : Sandeep | Age : 22 | DOB : 15500
Name : Neha | Age : 23 | DOB : 15500
Name : Akshita | Age : 34 | DOB : 15500
Name : Shreya | Age : 24 | DOB : 2500
Name : Anita | Age : 24 | DOB : 3500
Name : Vinay | Age : 22 | DOB : 500
Name : Nisha | Age : 21 | DOB : 4000