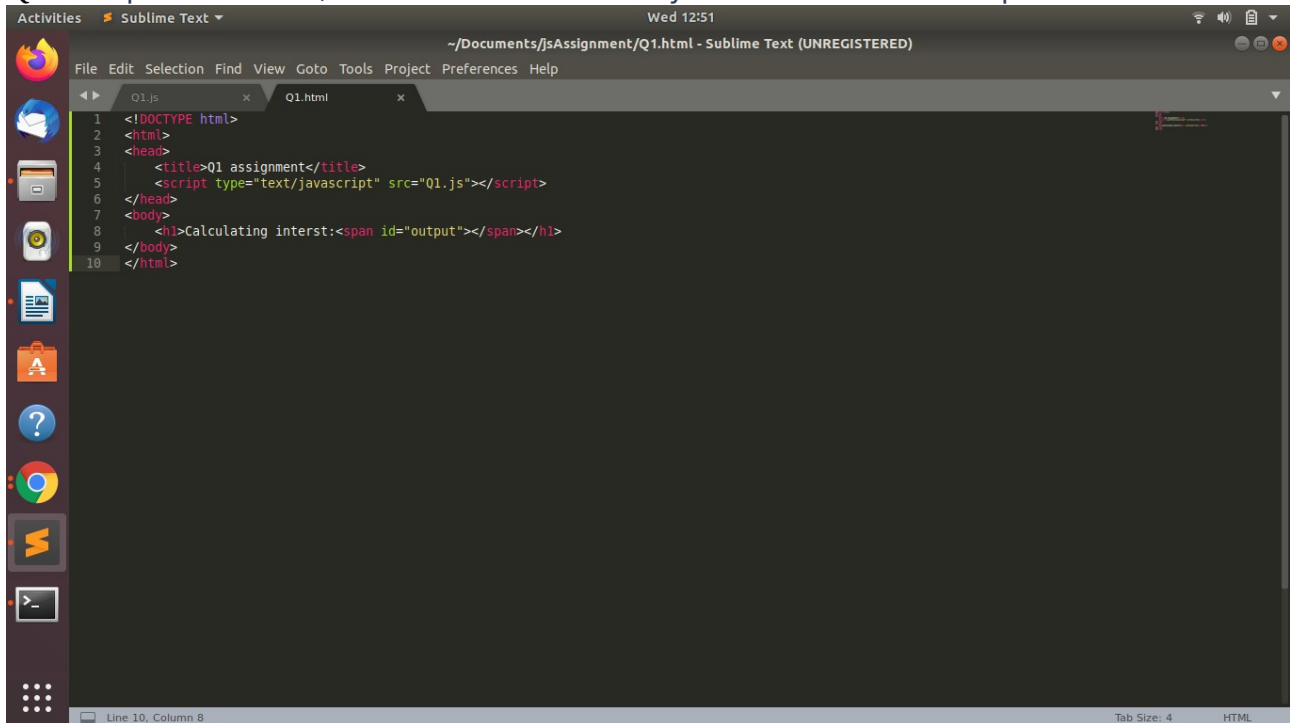


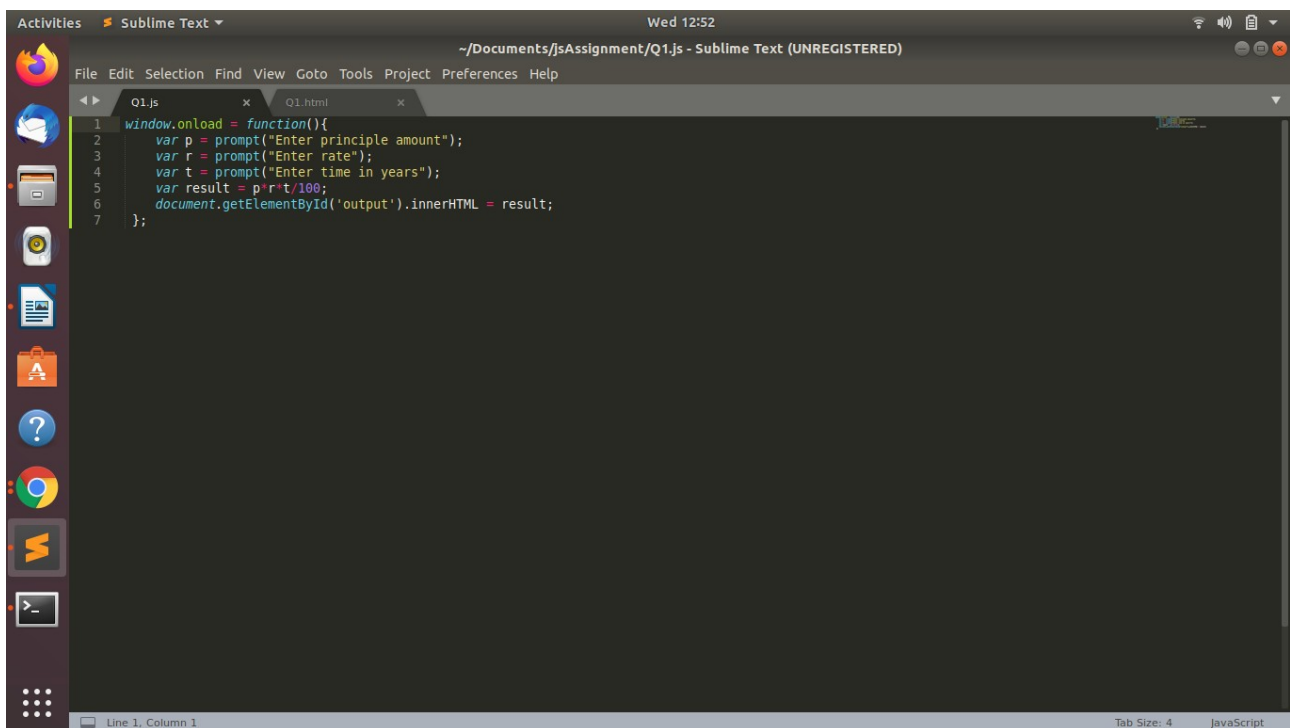
Q1: Prompt for amount, interest rate and no. of years and calculate simple interest.



The screenshot shows the Sublime Text editor with the file `Q1.html` open. The editor's title bar indicates the file path is `~/Documents/jsAssignment/Q1.html - Sublime Text (UNREGISTERED)`. The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. The file content is as follows:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Q1 assignment</title>
5   <script type="text/javascript" src="Q1.js"></script>
6 </head>
7 <body>
8   <h1>Calculating interst:<span id="output"></span></h1>
9 </body>
10 </html>
```

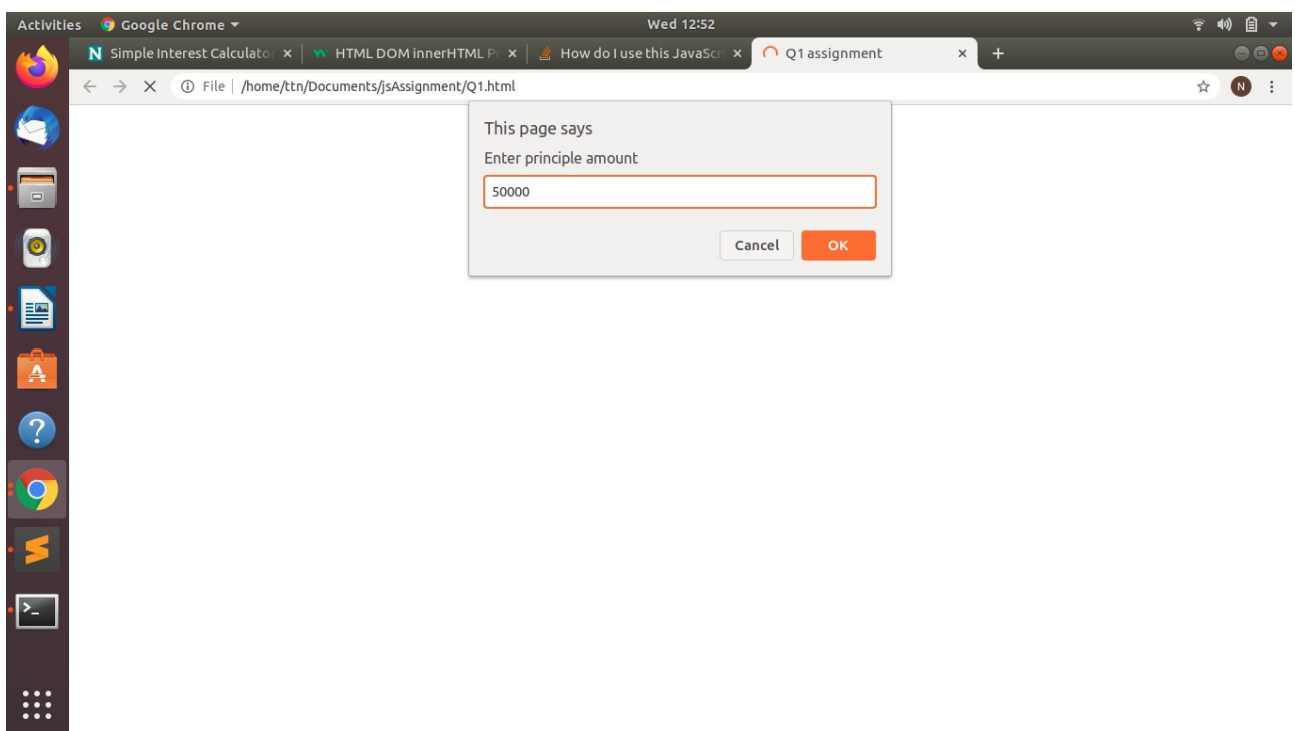
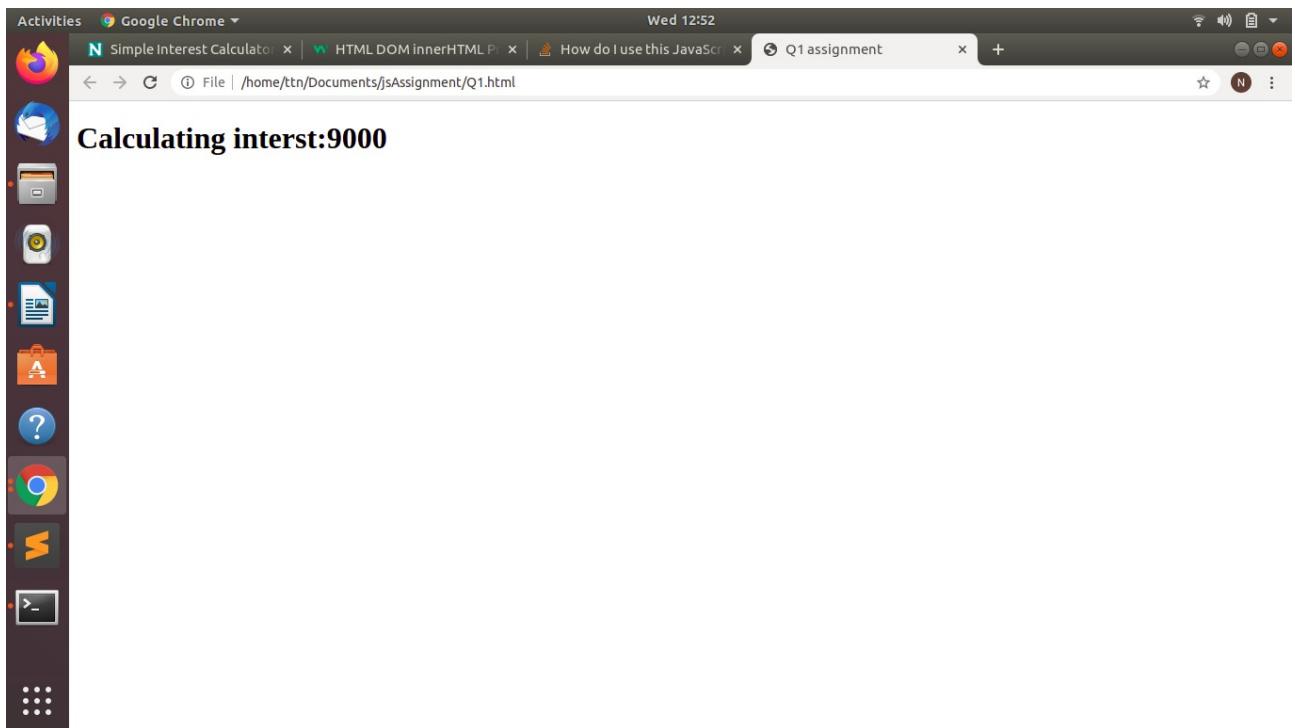
The status bar at the bottom shows "Line 10, Column 8", "Tab Size: 4", and "HTML".



The screenshot shows the Sublime Text editor with the file `Q1.js` open. The editor's title bar indicates the file path is `~/Documents/jsAssignment/Q1.js - Sublime Text (UNREGISTERED)`. The menu bar is the same as the previous screenshot. The file content is as follows:

```
1 window.onload = function(){
2   var p = prompt("Enter principle amount");
3   var r = prompt("Enter rate");
4   var t = prompt("Enter time in years");
5   var result = p*r*t/100;
6   document.getElementById('output').innerHTML = result;
7 };
```

The status bar at the bottom shows "Line 1, Column 1", "Tab Size: 4", and "JavaScript".



Q2: is palindrome string

Activities Sublime Text Wed 13:06
~/Documents/jsAssignment/Q2.html - Sublime Text (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

Q1.js x Q2.js x Q2.html x Q1.html x

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Q2 Assignment</title>
5   <script type="text/javascript" src="Q2.js"></script>
6 </head>
7 <body>
8   <h1>Checking palaindrome:<span id="output"></span></h1>
9 </body>
10 </html>
```

Line 5, Column 43 Tab Size: 4 HTML

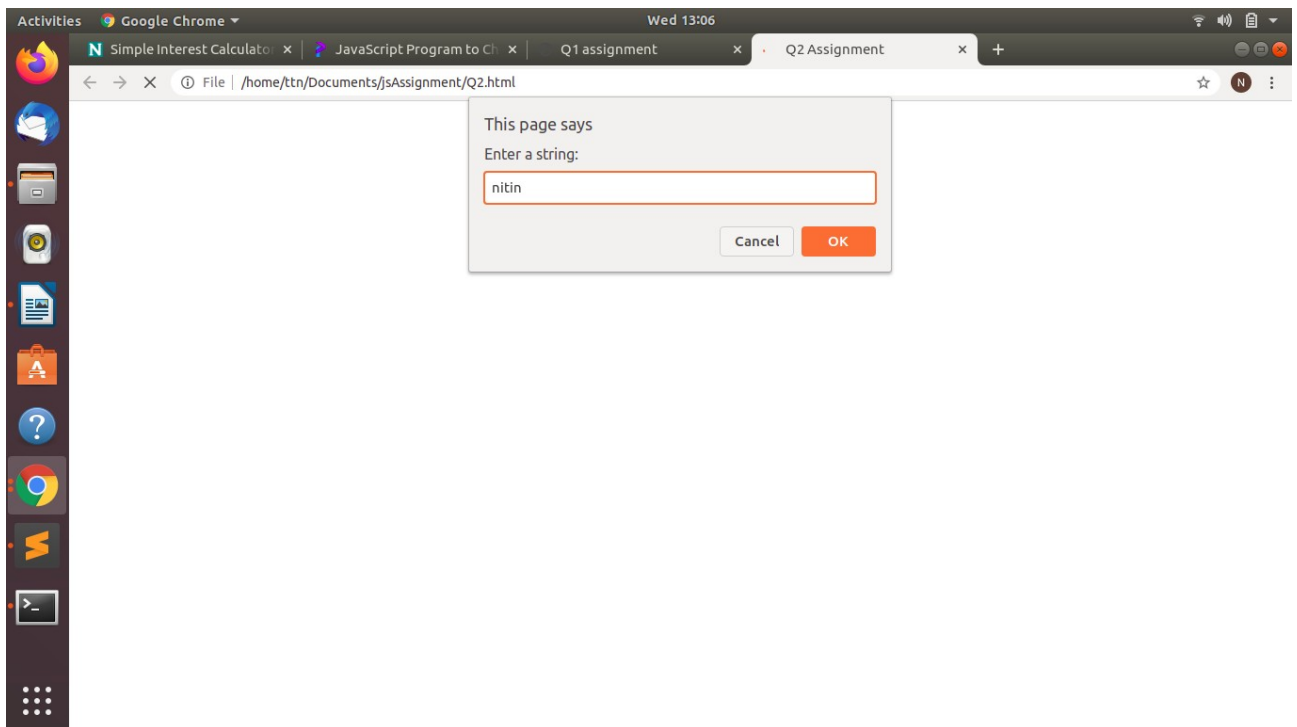
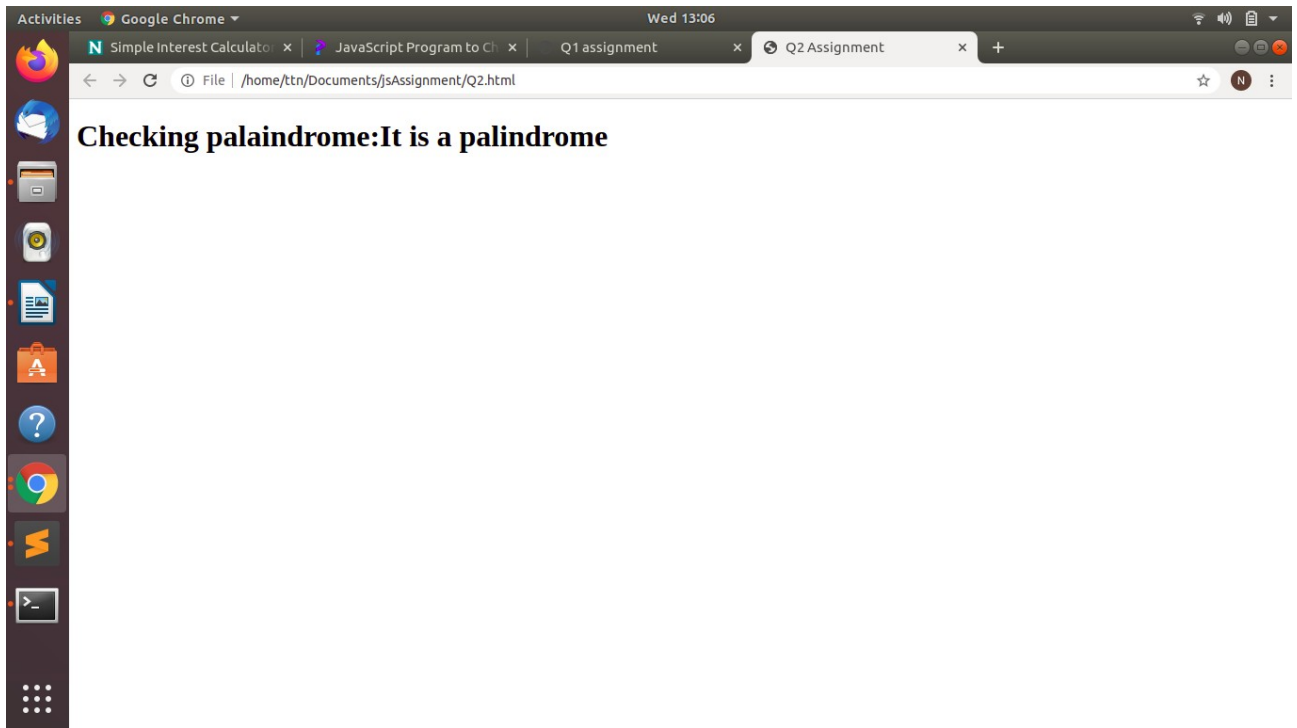
Activities Sublime Text Wed 13:06
~/Documents/jsAssignment/Q2.js - Sublime Text (UNREGISTERED)

```
File Edit Selection Find View Goto Tools Project Preferences Help
```

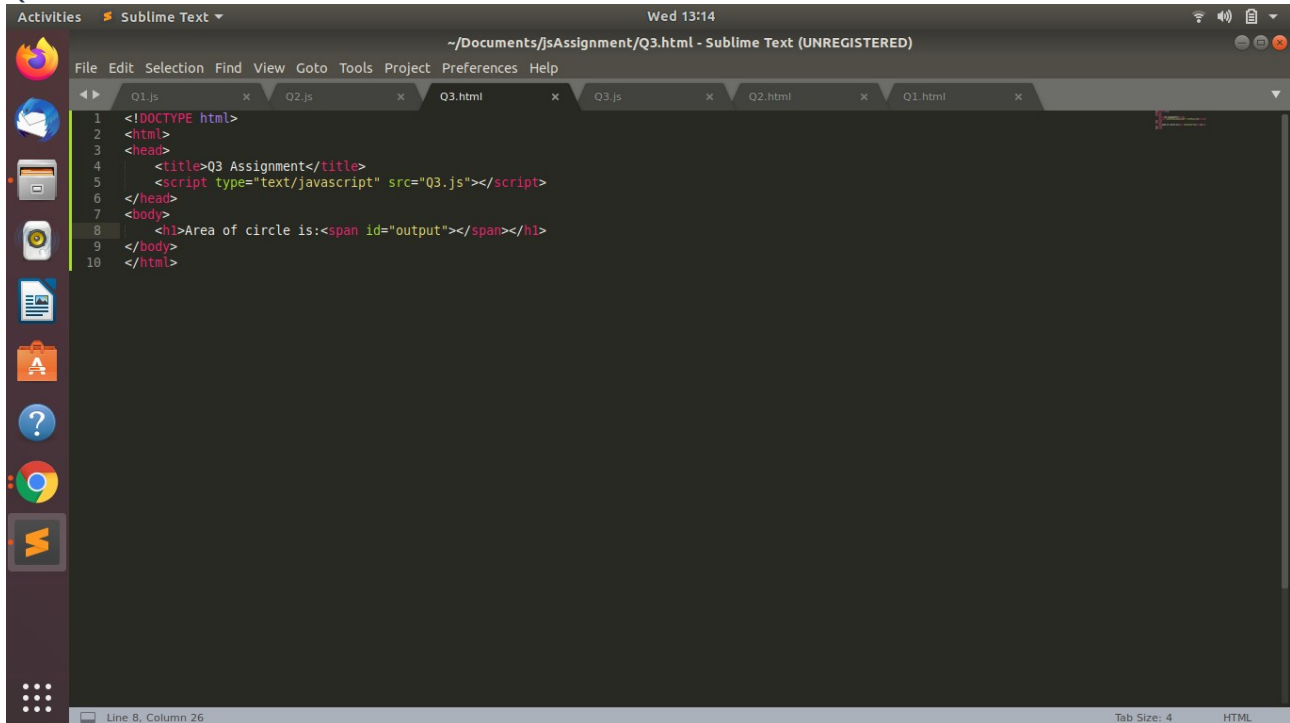
Q1.js x Q2.js x Q2.html x Q1.html x

```
1 function palindromeOrNot(str) {
2   const len = str.length;
3   for (let i = 0; i < len / 2; i++) {
4     if (string[i] !== string[len - 1 - i]) {
5       return 'It is not a palindrome';
6     }
7   }
8   return 'It is a palindrome';
9 }
10
11 const string = prompt('Enter a string: ');
12 const value = palindromeOrNot(string);
13
14 window.onload = function(){
15   document.getElementById('output').innerHTML = value;
16 };
```

Line 12, Column 43 Spaces: 4 JavaScript



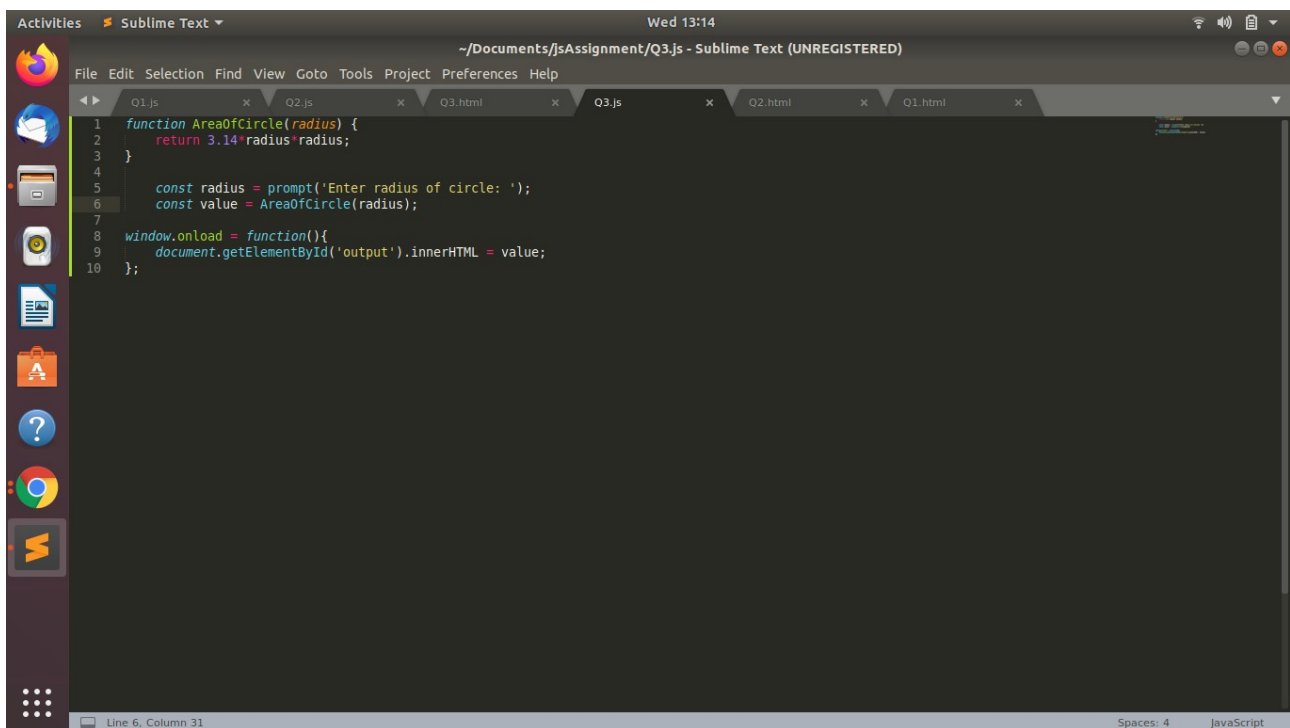
Q3: Area of circle



The screenshot shows the Sublime Text editor with the file `Q3.html` open. The editor's title bar indicates the path `~/Documents/jsAssignment/Q3.html - Sublime Text (UNREGISTERED)`. The menu bar includes File, Edit, Selection, Find, View, Goto, Tools, Project, Preferences, and Help. The tab bar shows several files: `Q1.js`, `Q2.js`, `Q3.html` (active), `Q3.js`, `Q2.html`, and `Q1.html`. The code in `Q3.html` is as follows:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Q3 Assignment</title>
5   <script type="text/javascript" src="Q3.js"></script>
6 </head>
7 <body>
8   <h1>Area of circle is:<span id="output"></span></h1>
9 </body>
10 </html>
```

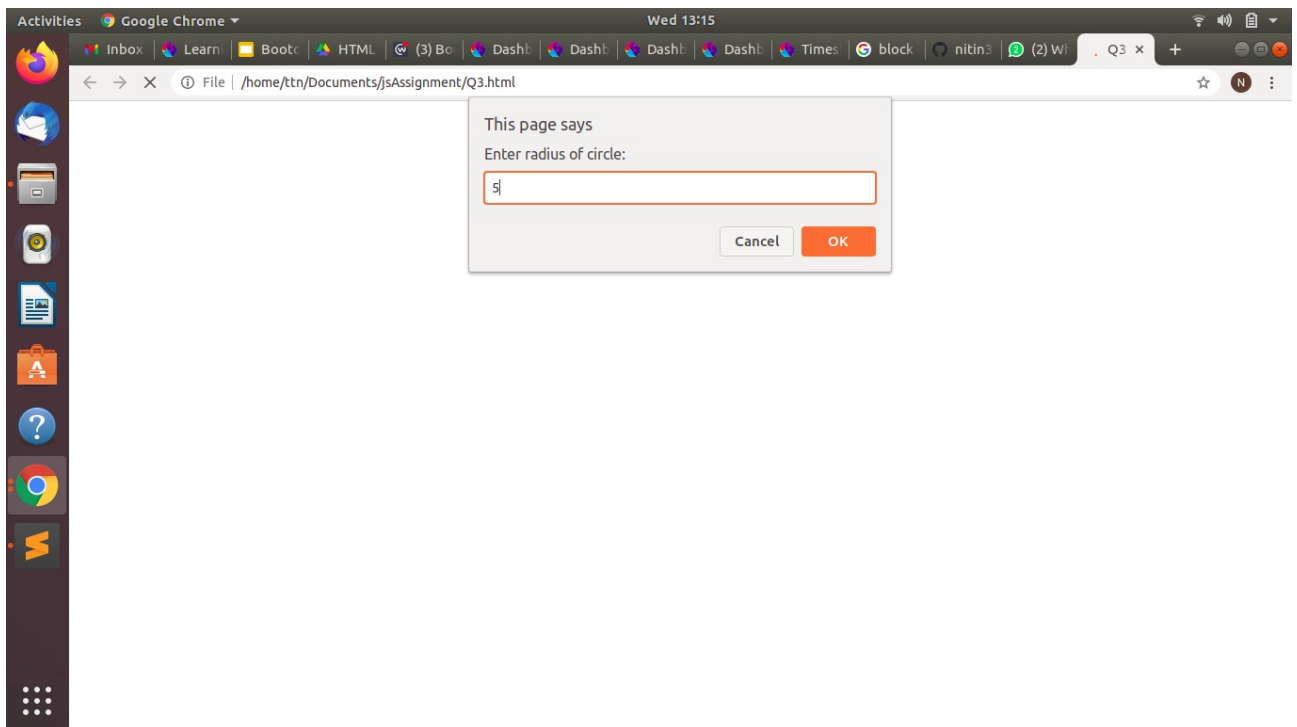
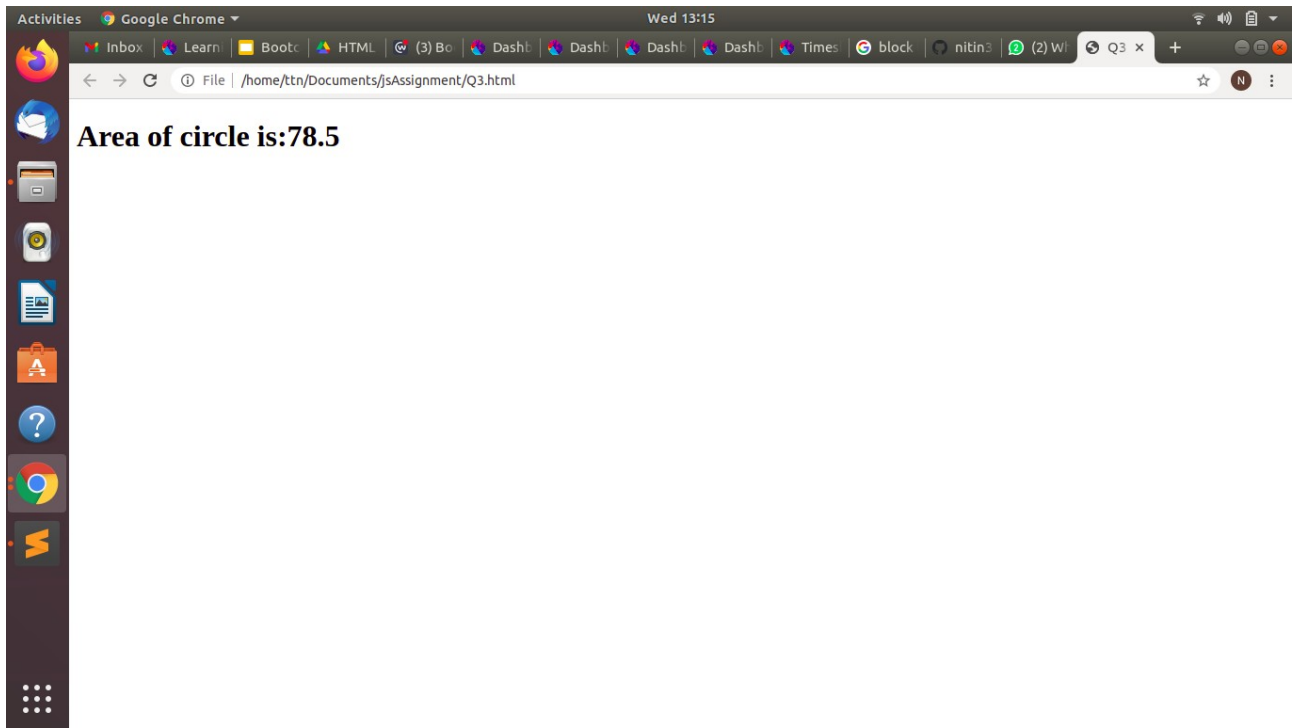
The status bar at the bottom shows "Line 8, Column 26", "Tab Size: 4", and "HTML".



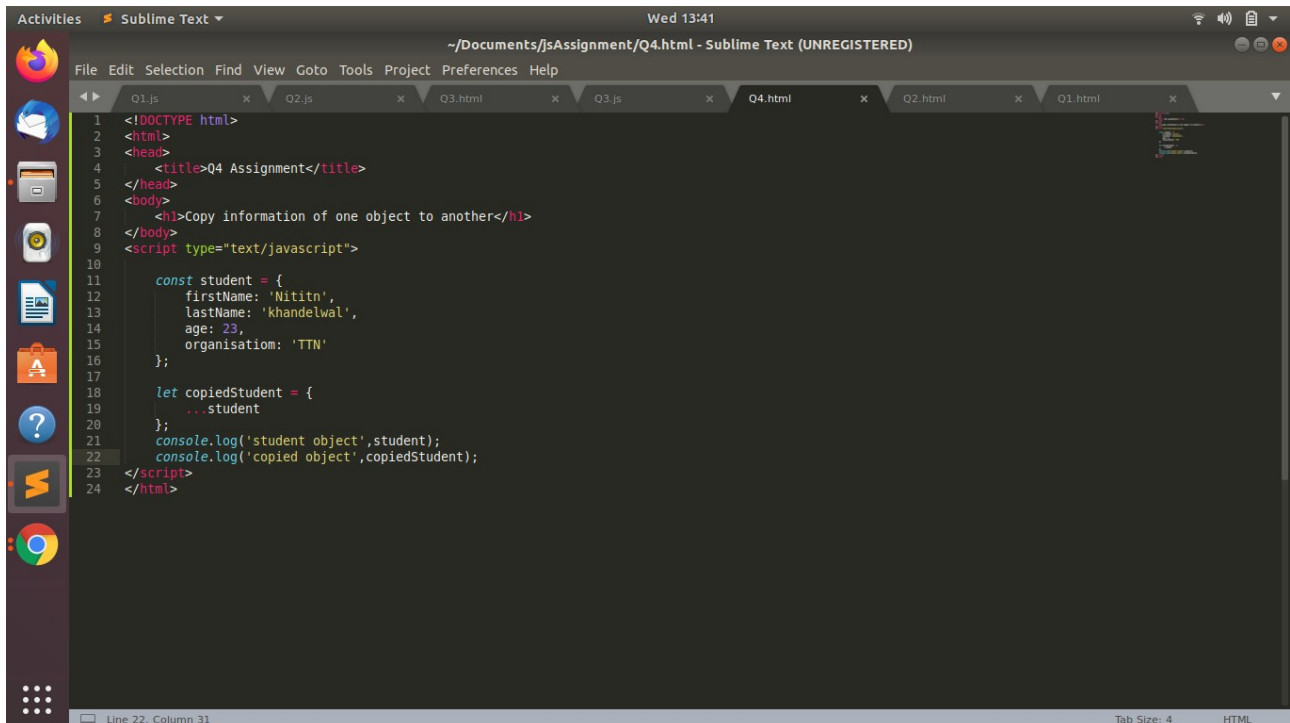
The screenshot shows the Sublime Text editor with the file `Q3.js` open. The editor's title bar indicates the path `~/Documents/jsAssignment/Q3.js - Sublime Text (UNREGISTERED)`. The menu bar is the same as in the previous screenshot. The tab bar shows the same files, with `Q3.js` now active. The code in `Q3.js` is as follows:

```
1 function AreaOfCircle(radius) {
2   return 3.14*radius*radius;
3 }
4
5 const radius = prompt('Enter radius of circle: ');
6 const value = AreaOfCircle(radius);
7
8 window.onload = function(){
9   document.getElementById('output').innerHTML = value;
10};
```

The status bar at the bottom shows "Line 6, Column 31", "Spaces: 4", and "JavaScript".

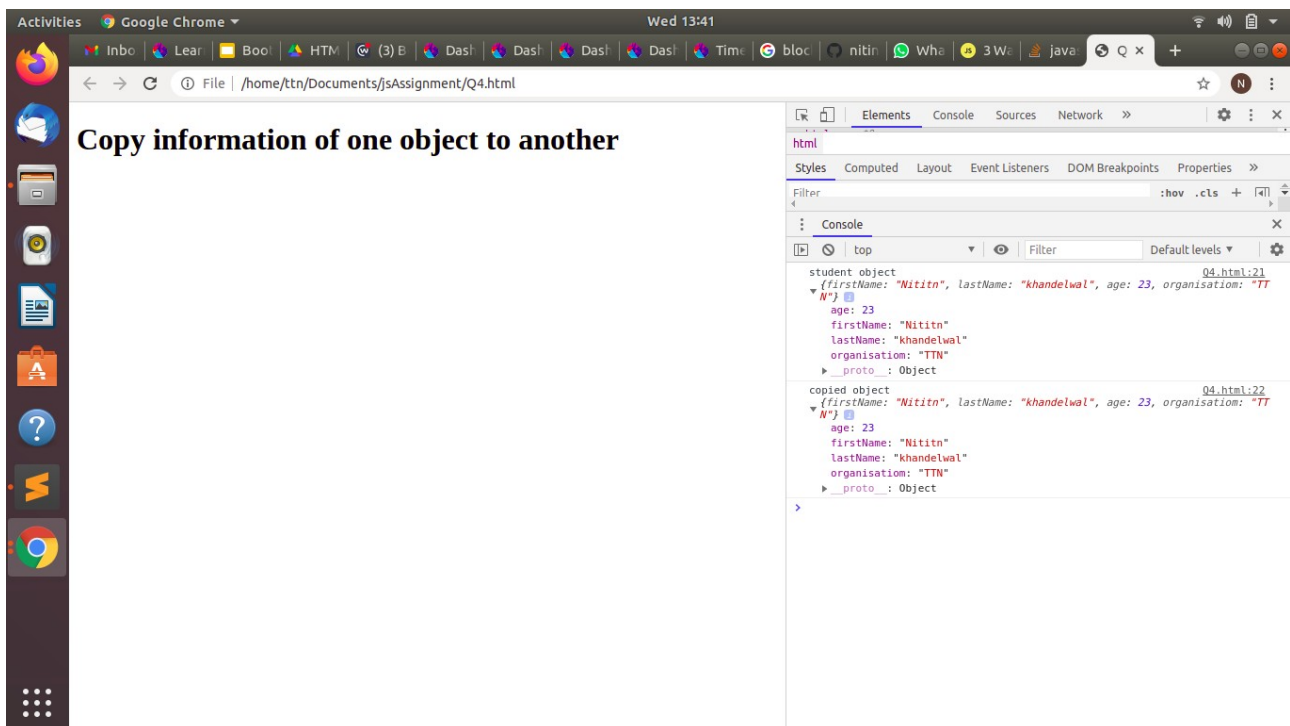


Q4: Copy information of one object to another and log it to console.



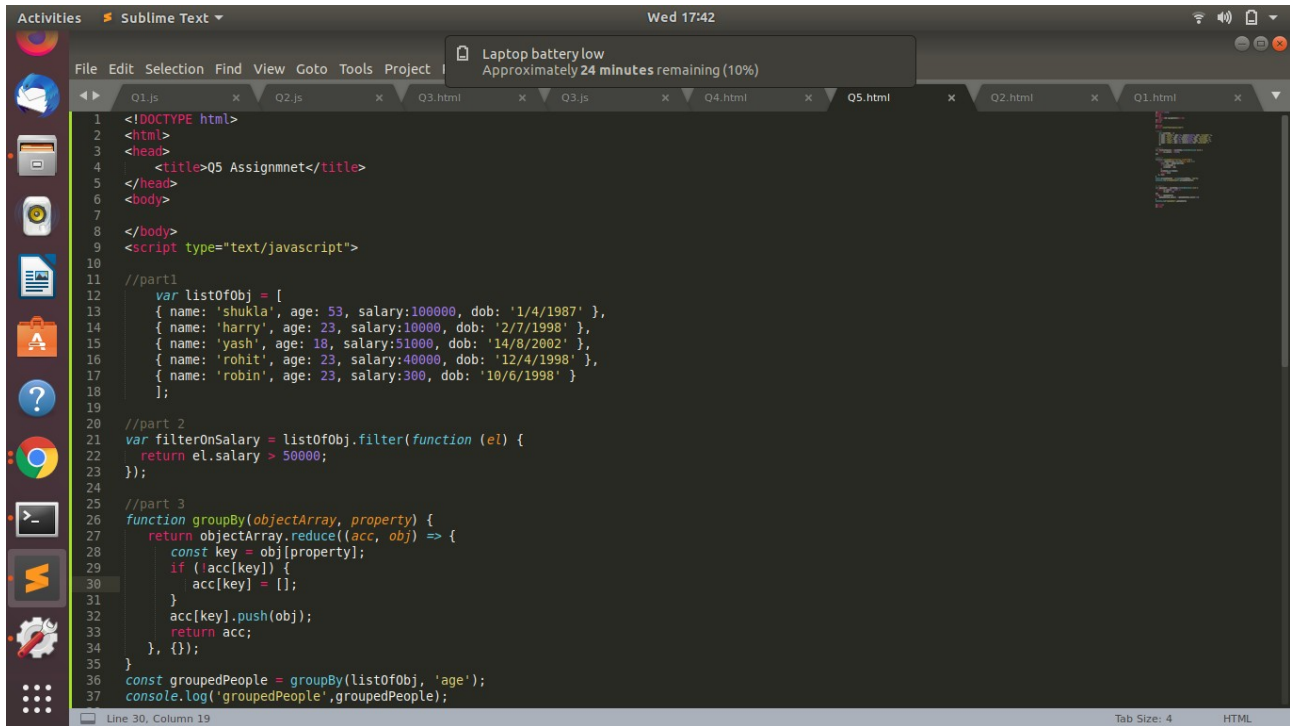
The screenshot shows the Sublime Text editor with a file named Q4.html. The code is as follows:

```
1 <!DOCTYPE html>
2 <html>
3 <head>
4   <title>Q4 Assignment</title>
5 </head>
6 <body>
7   <h1>Copy information of one object to another</h1>
8 </body>
9 <script type="text/javascript">
10
11   const student = {
12     firstName: 'Nititn',
13     lastName: 'khandelwal',
14     age: 23,
15     organisation: 'TTN'
16   };
17
18   let copiedStudent = {
19     ...student
20   };
21   console.log('student object', student);
22   console.log('copied object', copiedStudent);
23 </script>
24 </html>
```

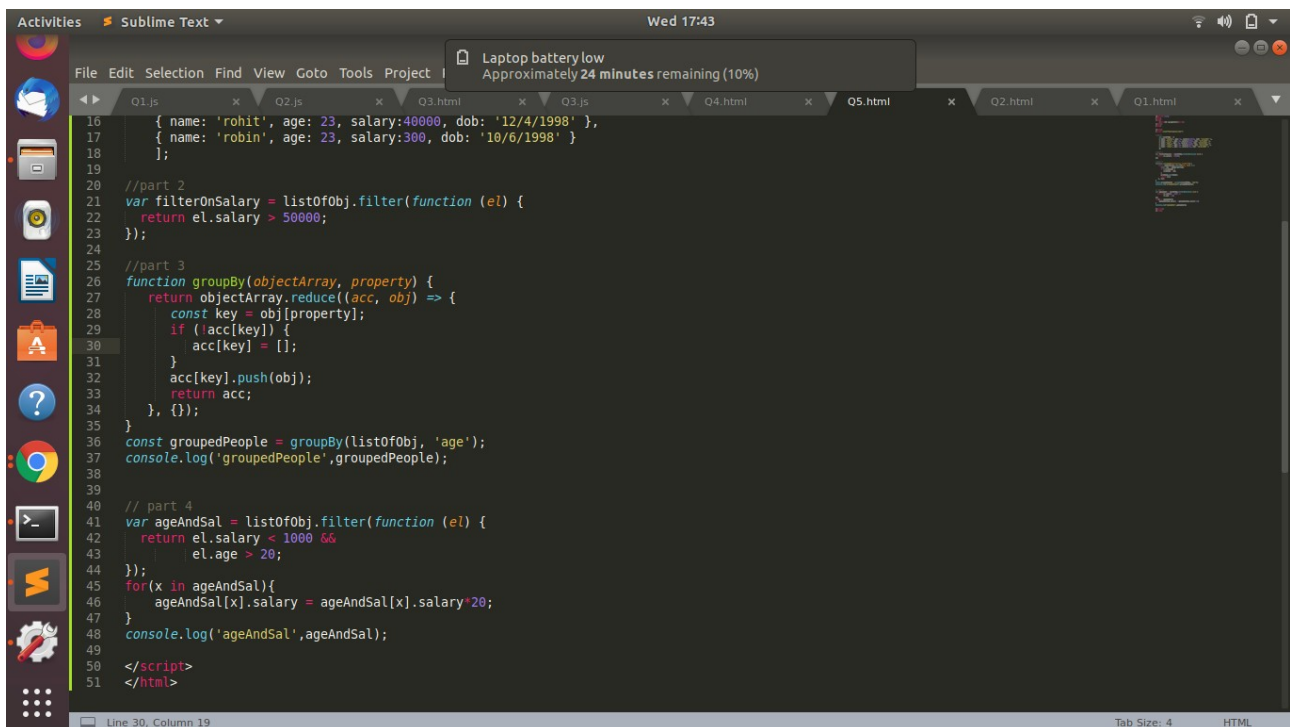


Q5: create a list of objects of Employee with info as follow :

- 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.



```
1 <!DOCTYPE html>
2 <html>
3 <head>
4 <title>Q5 Assignmnet</title>
5 </head>
6 <body>
7
8 </body>
9 <script type="text/javascript">
10
11 //part1
12 var listofObj = [
13   { name: 'shukla', age: 53, salary:100000, dob: '1/4/1987' },
14   { name: 'harry', age: 23, salary:10000, dob: '2/7/1998' },
15   { name: 'yash', age: 18, salary:51000, dob: '14/8/2002' },
16   { name: 'rohit', age: 23, salary:40000, dob: '12/4/1998' },
17   { name: 'robin', age: 23, salary:300, dob: '10/6/1998' }
18 ];
19
20 //part 2
21 var filterOnSalary = listOfObj.filter(function (el) {
22   return el.salary > 50000;
23 });
24
25 //part 3
26 function groupBy(objectArray, property) {
27   return objectArray.reduce((acc, obj) => {
28     const key = obj[property];
29     if (!acc[key]) {
30       acc[key] = [];
31     }
32     acc[key].push(obj);
33     return acc;
34   }, {});
35 }
36 const groupedPeople = groupBy(listOfObj, 'age');
37 console.log('groupedPeople',groupedPeople);
```



```
16   { name: 'rohit', age: 23, salary:40000, dob: '12/4/1998' },
17   { name: 'robin', age: 23, salary:300, dob: '10/6/1998' }
18 ];
19
20 //part 2
21 var filterOnSalary = listOfObj.filter(function (el) {
22   return el.salary > 50000;
23 });
24
25 //part 3
26 function groupBy(objectArray, property) {
27   return objectArray.reduce((acc, obj) => {
28     const key = obj[property];
29     if (!acc[key]) {
30       acc[key] = [];
31     }
32     acc[key].push(obj);
33     return acc;
34   }, {});
35 }
36 const groupedPeople = groupBy(listOfObj, 'age');
37 console.log('groupedPeople',groupedPeople);
38
39
40 // part 4
41 var ageAndSal = listOfObj.filter(function (el) {
42   return el.salary < 1000 &&
43     el.age > 20;
44 });
45 for(x in ageAndSal){
46   ageAndSal[x].salary = ageAndSal[x].salary*5;
47 }
48 console.log('ageAndSal',ageAndSal);
49
50 </script>
51 </html>
```


Activities Google Chrome Wed 17:44

File | /home/ttn/Documents/jsAssignment/Q5.html

Page Filesystem Sources Network

Q5.html x

```
22: return el.salary > 50000;
23: });
24: console.log('filterOnSalary', filterOnS
25:
26: //part 3
27: function groupBy(objectArray, property
28: return objectArray.reduce((acc, obj
29: const key = obj[property];
30: }
```

Line 22, Column 1 Coverage: n/a

Console

filterOnSalary (2) [{}], [{}]

- 0: {name: "shukla", age: 53, salary: 100000, dob: "1/4/1907"}
- 1: {name: "yash", age: 18, salary: 51000, dob: "14/8/2002"}

length: 2

__proto__: Array(0)

groupedPeople {18: Array(1), 23: Array(3), 53: Array(1)}

- 18: [{}]
- 23: (3) [{}], [{}], [{}]
- 53: [{}]

__proto__: Object

ageAndSal [{}]

- 0: {name: "robin", age: 23, salary: 6000, dob: "10/6/1998"}

length: 1

__proto__: Array(0)