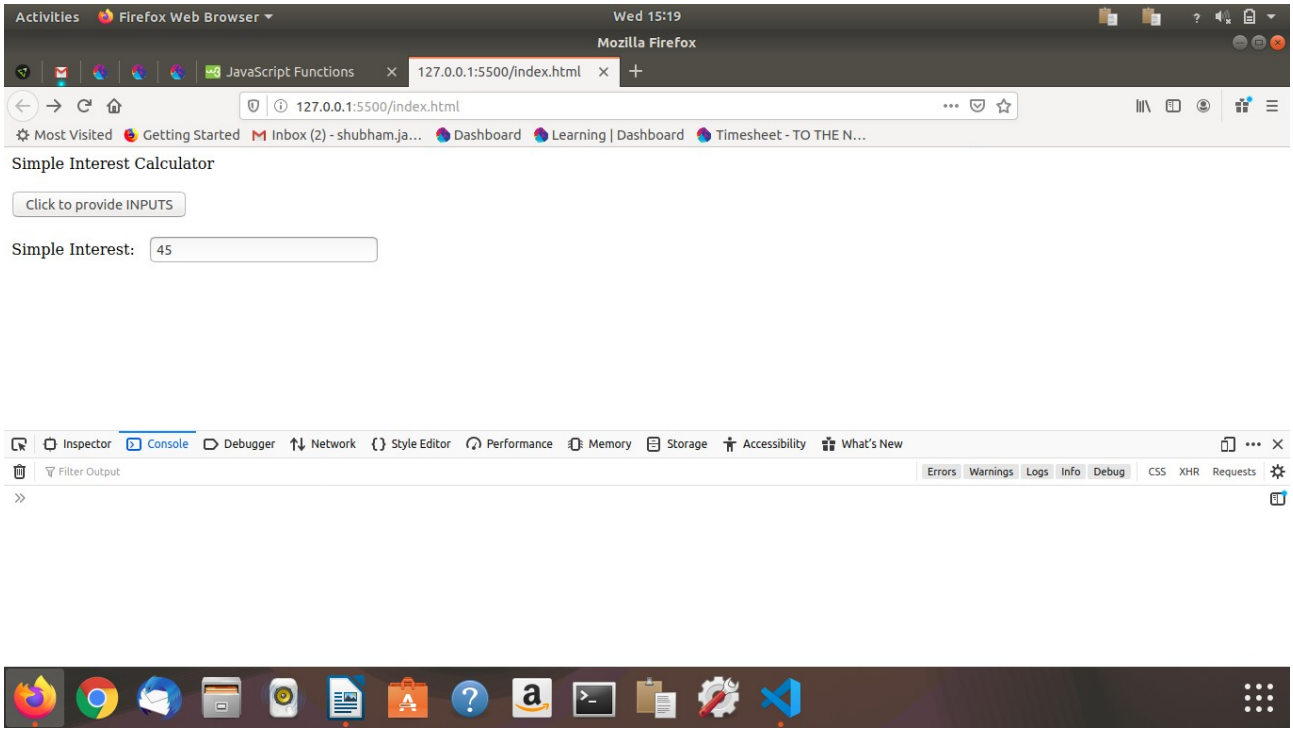
1. Prompt for amount, interest rate and no. of years and calculate simple interest.

```
<html lang="en">
<head>
<meta charset="UTF8">
<script src="app.js"></script>
</head>
<body>
<form>Simple Interest Calculator
<br><br><input type="button" onclick="si()" id="prompt" value="Click to provide INPUTS">
<br><br><label>Simple Interest: </label>  <input type="text" id="amount" value="0"
disabled>
</form>
</body>
</html>
```

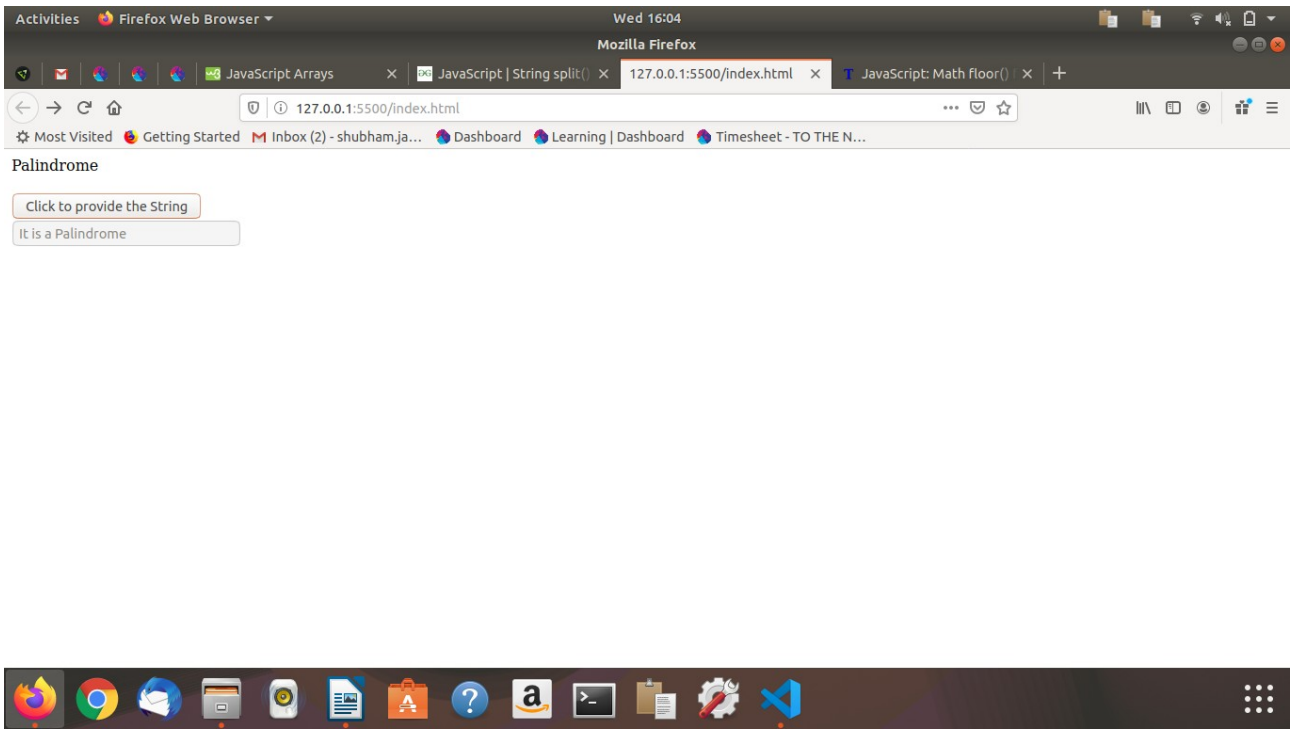
```
function si(){
var p=0,r=0,t=0;
p=prompt("Enter the principle amount","o");
r=prompt("Enter the interest rate in %","5");
t= prompt("Enter the duration for Simple Interest","0");
var amount=0;
amount=(t*(p*(r/100)));
document.getElementById("amount").value=amount;
}
```



2. is palindrome string

```
<html lang="en">
<head>
<meta charset="UTF8">
<script src="app.js"></script>
</head>
<body>
<form>Palindrome
<br><br><input type="button" onclick="check()" id="prompt" value="Click to provide the
String">
<br><input type="text" id="string1" value="0" disabled>
</form>
</body>
</html>
```

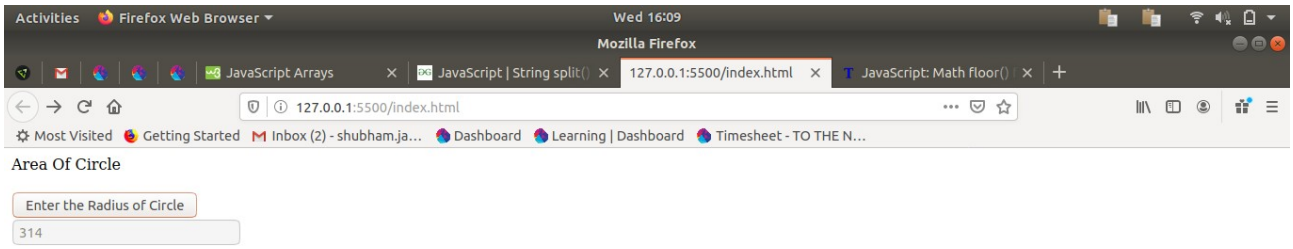
```
function check(){
let flag=0;
let string1=prompt("Enter the String","");
var array= string1.split("");
var len= array.length;
--len;
mid=Math.floor(len/2);
let i=0;
while(i<=mid)
{
if(array[i]!==array[len])
{
flag=-1;
}
i++;
len--;
}
if(flag==-1)
{
document.getElementById("string1").value= "It is not a Palindrome";
}
else if(flag==0)
{
document.getElementById("string1").value= "It is a Palindrome";
}
}
```


Activities
Firefox Web Browser
Wed 16:04
Mozilla Firefox
JavaScript Arrays
JavaScript | String split()
127.0.0.1:5500/index.html
JavaScript: Math floor()
127.0.0.1:5500/index.html
Most Visited
Getting Started
Inbox (2) - shubham.ja...
Dashboard
Learning | Dashboard
Timesheet - TO THE N...
Palindrome
Click to provide the String
It is a Palindrome

3. Area of circle

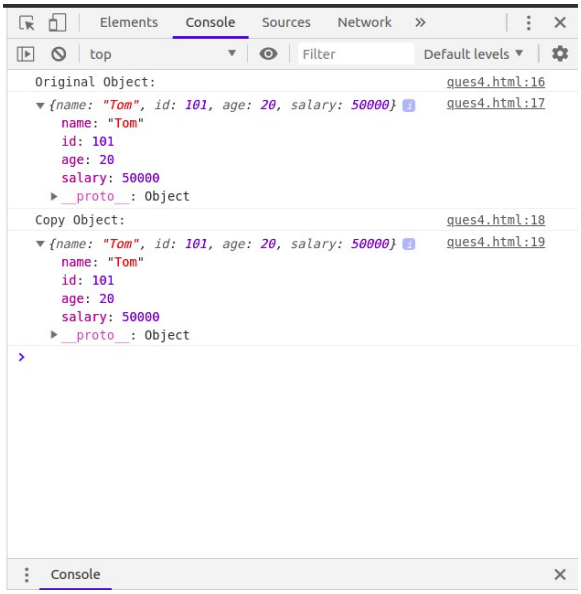
```
<html lang="en">
<head>
<meta charset="UTF8">
<script src="app.js"></script>
</head>
<body>
<form>Area Of Circle
<br><br><input type="button" onclick="cal()" id="prompt" value="Enter the Radius of Circle">
<br><input type="text" id="area" value="0" disabled>
</form>
</body>
</html>
```

```
function cal(){
const pi=3.14;
let r=0,area=1;
r = prompt("Enter The Radius of The Circle:","r");
area=pi*r*r;
document.getElementById("area").value=area;
}
```



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

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<script>
    var obj = {
        name:'Tom',
        id:101,
        age:20,
        salary:50000
    };
    var obj_copy = Object.assign({}, obj);
    console.log('Original Object:');
    console.log(obj);
    console.log('Copy Object:');
    console.log(obj_copy);
</script>
<body>

</body>
</html>
```


Elements
Console
Sources
Network
top
Filter
Default levels
Original Object:
ques4.html:16
{name: "Tom", id: 101, age: 20, salary: 50000}
ques4.html:17
name: "Tom"
id: 101
age: 20
salary: 50000
__proto__: Object
Copy Object:
ques4.html:18
{name: "Tom", id: 101, age: 20, salary: 50000}
ques4.html:19
name: "Tom"
id: 101
age: 20
salary: 50000
__proto__: Object
Console

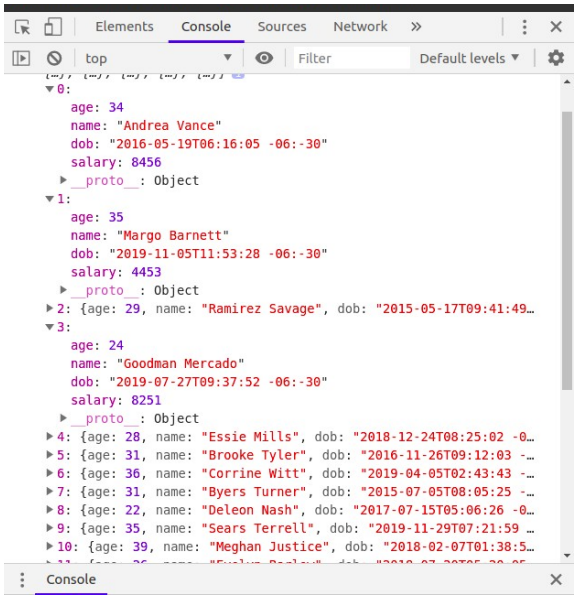
5. create a list of objects of Employee with info as follow :
    - Name, age, salary ,DOB
    - filter all employees with salary greater than 5000
    - group employee on the basis of their age
    - fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times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

```
<!DOCTYPE html>
<html lang="en">

<head>
   <meta charset="UTF-8">
   <meta name="viewport" content="width=device-width, initial-scale=1.0">
   <title>Document</title>
</head>
<script>
   var emp_data = [
      {
         "age": 34,
         "name": "Andrea Vance",
         "dob": "2016-05-19T06:16:05 -06:-30",
         "salary": 8456
      },
      {
         "age": 35,
         "name": "Margo Barnett",
         "dob": "2019-11-05T11:53:28 -06:-30",
         "salary": 4453
      },
      {
         "age": 29,
         "name": "Ramirez Savage",
         "dob": "2015-05-17T09:41:49 -06:-30",
         "salary": 9286
      },
      {
         "age": 24,
         "name": "Goodman Mercado",
         "dob": "2019-07-27T09:37:52 -06:-30",
         "salary": 8251
      },
      {
         "age": 28,
         "name": "Essie Mills",
         "dob": "2018-12-24T08:25:02 -06:-30",
         "salary": 8215
      },
      {
         "age": 31,
         "name": "Brooke Tyler",
```

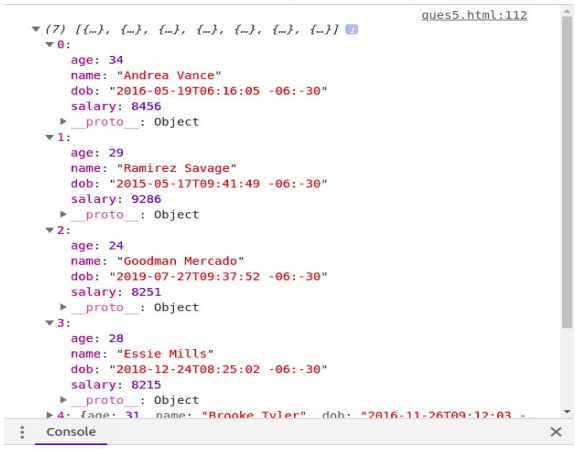
```
    "dob": "2016-11-26T09:12:03 -06:-30",
    "salary": 7541
  },
  {
    "age": 36,
    "name": "Corrine Witt",
    "dob": "2019-04-05T02:43:43 -06:-30",
    "salary": 845
  },
  {
    "age": 31,
    "name": "Byers Turner",
    "dob": "2015-07-05T08:05:25 -06:-30",
    "salary": 293
  },
  {
    "age": 22,
    "name": "Deleon Nash",
    "dob": "2017-07-15T05:06:26 -06:-30",
    "salary": 2592
  },
  {
    "age": 35,
    "name": "Sears Terrell",
    "dob": "2019-11-29T07:21:59 -06:-30",
    "salary": 2182
  },
  {
    "age": 39,
    "name": "Meghan Justice",
    "dob": "2018-02-07T01:38:59 -06:-30",
    "salary": 6737
  },
  {
    "age": 26,
    "name": "Evelyn Barlow",
    "dob": "2018-07-20T05:20:05 -06:-30",
    "salary": 6288
  },
  {
    "age": 29,
    "name": "Estes Lindsey",
    "dob": "2015-08-10T10:49:26 -06:-30",
    "salary": 2007
  },
  {
    "age": 23,
    "name": "Isabella Wilder",
    "dob": "2014-07-23T04:12:11 -06:-30",
    "salary": 3244
  },
  {
```

```
            "age": 23,
            "name": "Taylor Gross",
            "dob": "2018-09-26T11:27:43 -06:-30",
            "salary": 4281
        },
        {
            "age": 32,
            "name": "Annmarie Collier",
            "dob": "2015-03-21T02:08:30 -06:-30",
            "salary": 946
        }
    ]

    // Name, age, salary ,DOB
    console.log(emp_data);


    // filter all employees with salary greater than 5000

    const result = emp_data.filter(emp => emp.salary > 5000);
    console.log(result);

    // group employee on the basis of their age
    var group_age = {};

    for(i in emp_data) {
        if(!group_age[emp_data[i].age])
        {
            group_age[emp_data[i].age] = [];
        }
        group_age[emp_data[i].age].push(emp_data[i]);
    }
    console.log(group_age);


    // fetch employees with salary less than 1000 and age greater than 20. Then give them an
increment 5 times their salary.

    const newEmpData = emp_data.filter(emp => emp.salary<1000 && emp.age > 20 );
    newEmpData.map(emp => emp.salary *=5);
    console.log(newEmpData);


</script>

<body>

</body>

</html>
```

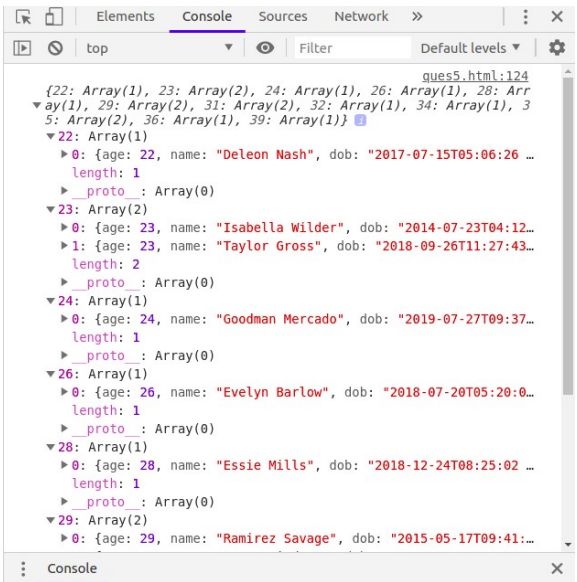
Name, age, salary ,DOB



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.