

## Exercise: Introduction to javascript

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

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Assignment</title>

  <script src="app.js"></script>
</head>
<body>
  <button onclick="simple_interaset()">CLICK</button>
</body>

</html>
```

```
function simple_interaset()
{
  var amt=prompt("Enter amount");
  var r=prompt("Enter rate");
  var t=prompt("Enter time");
  var p=(amt/(1+(r*t)));
  var si=(p*r*t)/100;
  document.write("Simple Interest:"+si);
}
```

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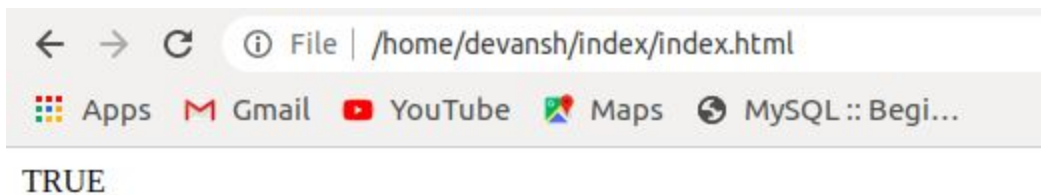
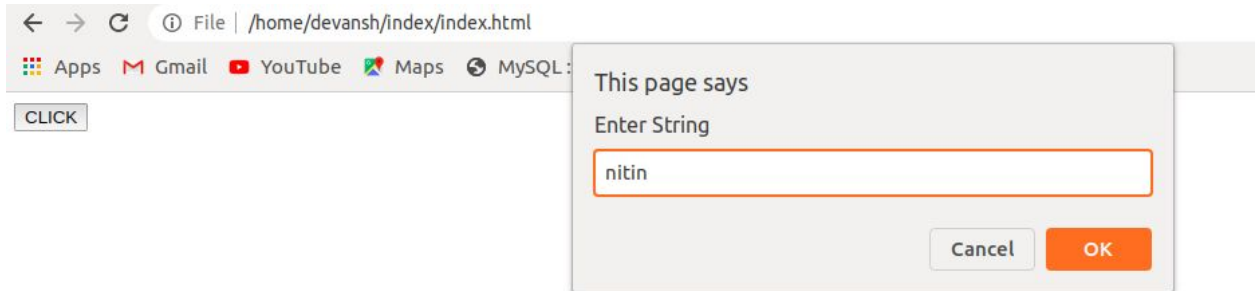
Simple Interest:0.9411764705882354

2. is palindrome string

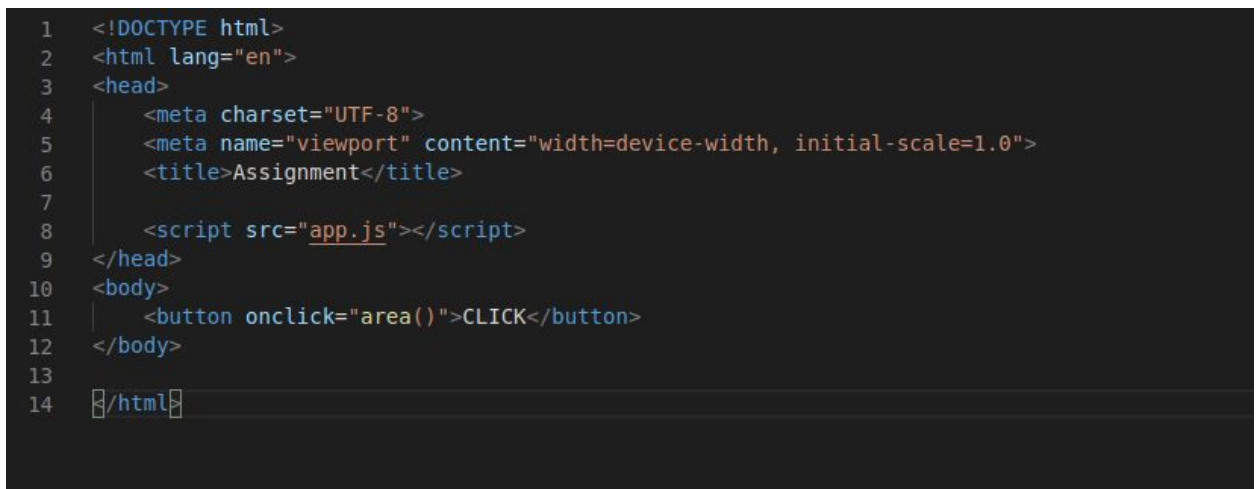
```
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Assignment</title>
7
8      <script src="app.js"></script>
9  </head>
10 <body>
11     <button onclick="palindrome()">CLICK</button>
12 </body>
13
14 </html>
```

```
function palindrome() {
    var str = prompt("Enter String");
    var len = str.length;
    var mid = Math.floor(len/2);

    for ( var i = 0; i < mid; i++ ) {
        if (str[i] !== str[len-1-i]) {
            document.write("FALSE");
            return false;
        }
    }
    document.write("TRUE");
    return true;
}
```

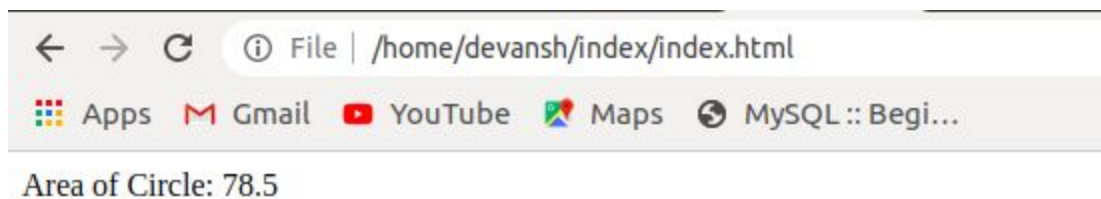
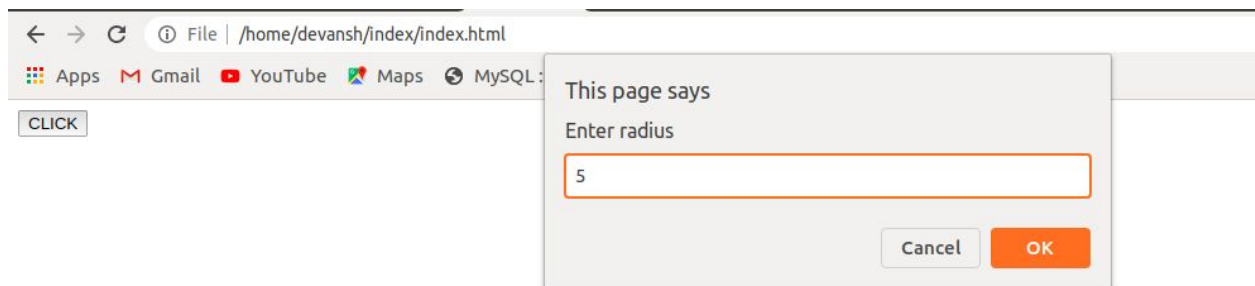


### 3. Area of circle



```
function area()
{
    var r=prompt("Enter radius");
    var a=3.14*r*r;
    document.write("Area of Circle: "+a);

function copy_q()
{
    const obj1={a:1,b:2};
    const obj2={c:4,d:5};
    const output=Object.assign(obj1,obj2);
    console.log(output);
}
```



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

```

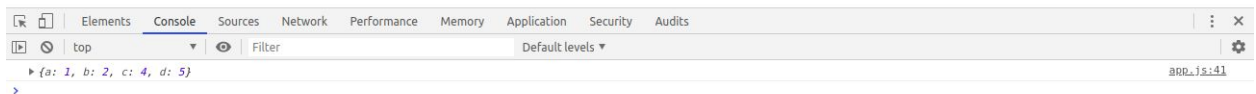
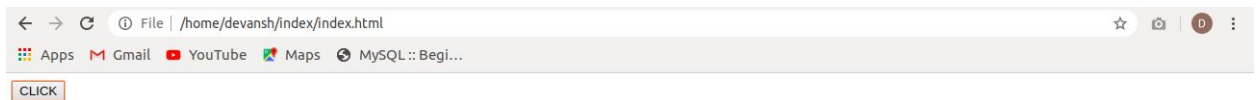
1  <!DOCTYPE html>
2  <html lang="en">
3  <head>
4      <meta charset="UTF-8">
5      <meta name="viewport" content="width=device-width, initial-scale=1.0">
6      <title>Assignment</title>
7
8      <script src="app.js"></script>
9  </head>
10 <body>
11     <button onclick="copy_q()">CLICK</button>
12 </body>
13
14 </html>

```

```

function copy_q()
{
    const obj1={a:1,b:2};
    const obj2={c:4,d:5};
    const output=Object.assign(obj1,obj2);
    console.log(output);
}

```



5. create a list of objects of Employee with info as follow :
  - Name, age, salary ,DOB

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Assignment</title>

  <script src="app.js"></script>
</head>
<body>
</body>

</html>
```

```

var list=[
  {name:"Devansh",age:22,salary:500,DOB:'09/09/1997'},
  {name:"Rishi",age:20,salary:200,DOB:'04/09/1997'},
  {name:"Samar",age:20,salary:3000,DOB:'13/09/1997'},
  {name:"Suraj",age:23,salary:4000,DOB:'02/09/1997'},
  {name:"Chirag",age:25,salary:5000,DOB:'18/09/1997'},
  {name:"Henry",age:25,salary:600,DOB:'25/09/1997'},
  {name:"Ben",age:18,salary:7000,DOB:'30/09/1997'}
];

function employee()
{
  console.log(list);
}
employee();

```

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top Filter Default levels

(7) [(), {}, {}, {}, {}, {}, {}, {}]

- 0: {name: "Devansh", age: 22, salary: 500, DOB: "09/09/1997"}
- 1: {name: "Rishi", age: 20, salary: 200, DOB: "04/09/1997"}
- 2: {name: "Samar", age: 20, salary: 3000, DOB: "13/09/1997"}
- 3: {name: "Suraj", age: 23, salary: 4000, DOB: "02/09/1997"}
- 4: {name: "Chirag", age: 25, salary: 5000, DOB: "18/09/1997"}
- 5: {name: "Henry", age: 25, salary: 600, DOB: "25/09/1997"}
- 6: {name: "Ben", age: 18, salary: 7000, DOB: "30/09/1997"}

length: 7

\_\_proto\_\_: Array(0)

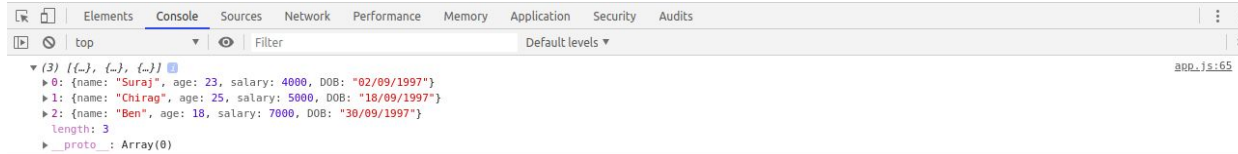
- filter all employees with salary greater than 5000

```

function salary()
{
  var filterx=list.filter(list => list.salary>3000);
  console.log(filterx);
}
salary();

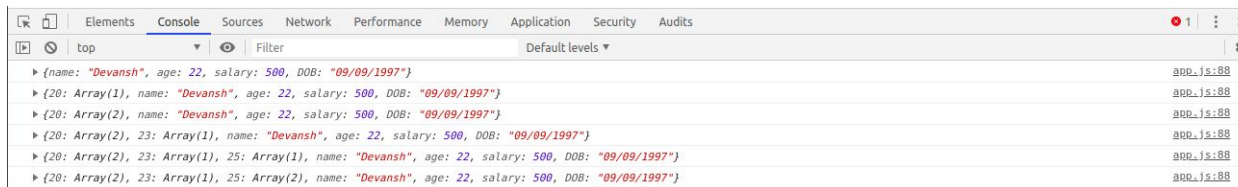
```





- group employee on the basis of their age

```
function groupEmployee()  
{  
  var group=list.reduce((r,a)=>  
  {  
    console.log(r);  
    r[a.age]=[...r[a.age] || [],a];  
    return r;  
  })  
}  
(groupEmployee())();
```



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



```
function abcz()  
{  
  var xy=list.filter(list =>  
  {  
    if(list.salary<1000 && list.age>20)  
    {  
      list.salary=list.salary*5;  
      return true;  
    }  
  })  
  console.log(xy);  
};  
(abcz())();
```

