

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

Source Code(HTML)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Calculate Simple Interest</title>
</head>
<body>
  <h1>Calculate Simple Interest: <span id="output"></span></h1>

  <script src="./main.js"></script>
</body>
</html>
```

Source Code(Javascript)

```
window.onload = function(){
  var p = prompt("Enter principle amount");
  var r = prompt("Enter rate");
  var t = prompt("Enter time in years");
  var result = p*r*t/100;
  document.getElementById("output").innerHTML = result;
}
```

Output Screenshot

127.0.0.1:5500 says

Enter principle amount

1000

Cancel

OK

127.0.0.1:5500 says

Enter rate

10

Cancel

OK

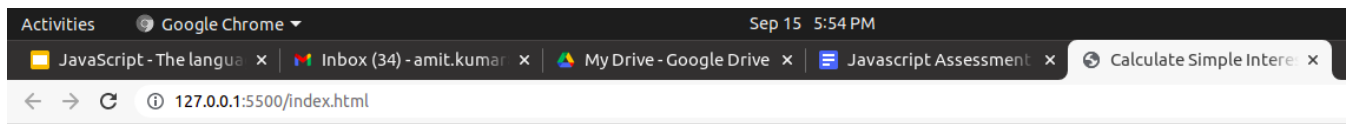
127.0.0.1:5500 says

Enter time in years

2

Cancel

OK



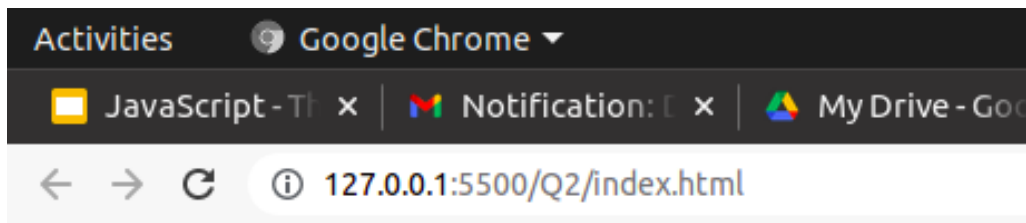
Calculate Simple Interest: 200

2. is palindrome string

Source Code(JavaScript)

```
function isplan(str){  
    str = str.replace(/\W/g, '').toLowerCase();  
    return(str == str.split('').reverse().join(''));  
}  
document.write(isplan('amit'));
```

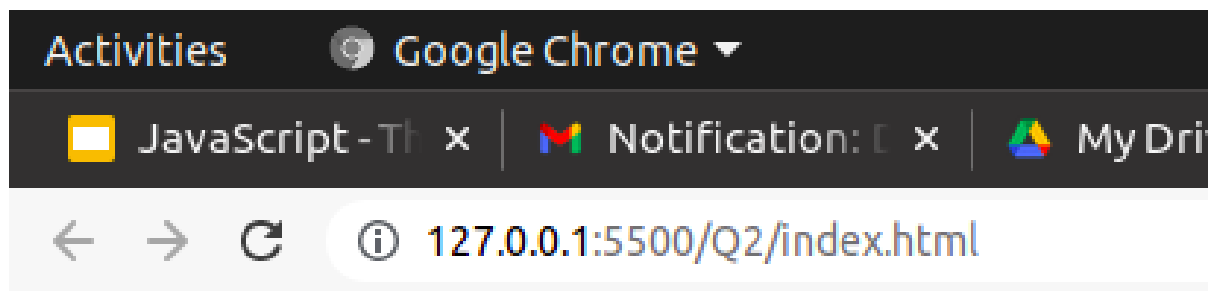
Output Screenshot



Source Code(JavaScript)

```
function isplan(str){
    str = str.replace(/\W/g, '').toLowerCase();
    return(str == str.split('').reverse().join(''));
}
document.write(isplan('radar'));
```

Output Screenshot



Palindrome Number

true

3. Area of circle

Source Code(HTML)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="
width=device-width, initial-scale=1.0">
  <title>Area of Circle</title>
</head>
<body>
  <h1>Area of Circle: <span id="output"></span></h1>

  <script src="./main.js"></script>
</body>
</html>
```

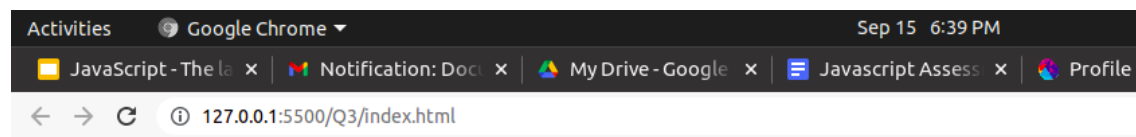
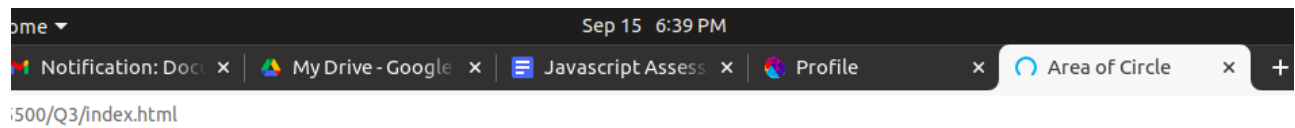
Source Code(Javascript)

```
function AreaofCircle(radius){
  return 3.14 * radius * radius;
}

const radius = prompt("Enter the radius of the circle: ");
const value = AreaofCircle(radius);

window.onload = function(){
  document.getElementById("output").innerHTML = value;
}
```

Output Screenshot



Area of Circle: 314

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

Source Code(HTML)

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta http-equiv="X-UA-Compatible" content="IE=edge">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Copy one obj to another</title>
</head>
<body onload="cpyObj()">
  <script src="./main.js"></script>
</body>
</html>
```

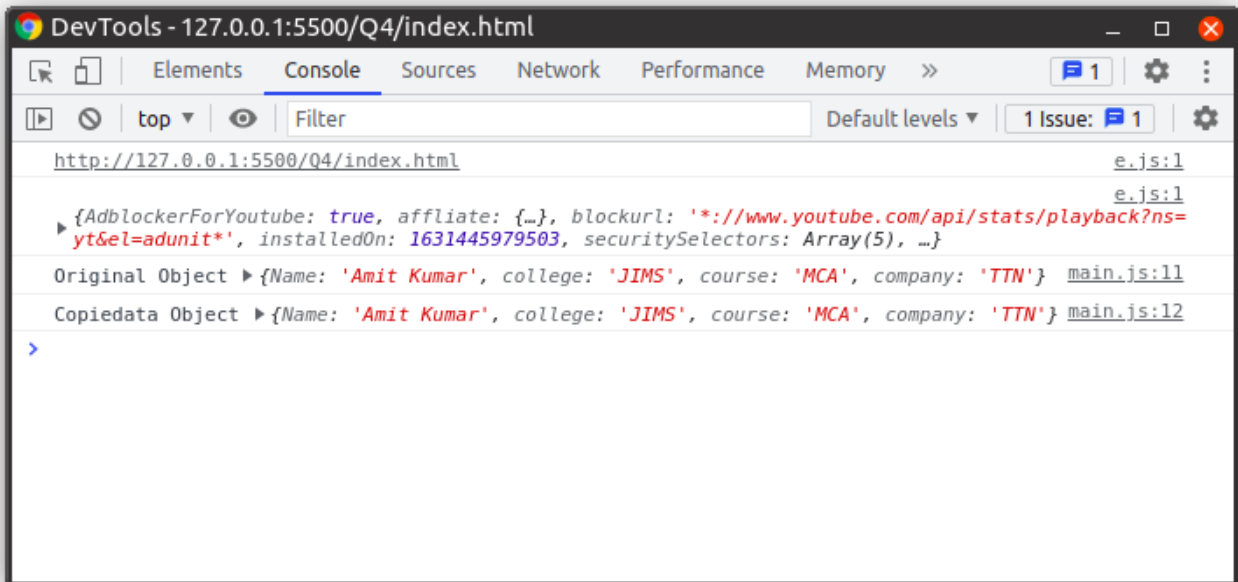
Source Code(Javascript)

```
function cpyObj(){
  const details = {
    Name: 'Amit Kumar',
    college: 'JIMS',
    course: 'MCA',
    company: 'TTN'
  };

  let copiedata = details;

  console.log('Original Object', details);
  console.log('Copiedata Object', copiedata);
}
```


Output Screenshot



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.

Source Code

```
function EmpData(){  
  
    //First Part  
  
    let listofObj = [  
        { name: 'Amit', age: 26, salary: 10000, dob: '15/05/1995'},  
        { name: 'Akash', age: 23, salary: 12000, dob: '28/08/1998'},  
        { name: 'Anuj', age: 22, salary: 6000, dob: '25/03/1999'},  
        { name: 'Rahul', age: 24, salary: 400, dob: '07/11/1993'},  
        { name: 'Nehaaaa', age: 25, salary: 300, dob: '01/08/1994'},  
    ];  
  
    console.log('List of employees', listofObj);  
  
    //Second Part  
  
    var filterOnSalary = listofObj.filter(function (e1) {  
        return e1.salary > 5000;  
    });  
    console.log('FilterOnSalary', filterOnSalary);  
}
```

```

//Third Part

function groupBy(objectArray, property) {
  return objectArray.reduce((acc, obj) => {
    const key = obj[property];
    if (!acc[key]) {
      acc[key] = [];
    }
    acc[key].push(obj);
    return acc;
  }, {});
}
const groupPeople = groupBy(listofObj, 'age');
console.log('groupPeople', groupPeople);

//Fourth Part

var fff = listofObj.filter(function (e1) {
  if(e1.age>20 && e1.salary<1000){
    e1.salary=e1.salary*5
    return e1;
  }
})

console.log("Updated list after increment", fff);
};

```

Output Screenshot

```
List of employees ▼ (5) [{...}, {...}, {...}, {...}, {...}] ⓘ
  ▶ 0: {name: 'Amit', age: 26, salary: 10000, dob: '15/05/1995'}
  ▶ 1: {name: 'Akash', age: 23, salary: 12000, dob: '28/08/1998'}
  ▶ 2: {name: 'Anuj', age: 22, salary: 6000, dob: '25/03/1999'}
  ▶ 3: {name: 'Rahul', age: 24, salary: 2000, dob: '07/11/1993'}
  ▶ 4: {name: 'Nehaaaa', age: 25, salary: 1500, dob: '01/08/1994'}
    length: 5
  ▶ [[Prototype]]: Array(0)

FilterOnSalary ▼ (3) [{...}, {...}, {...}] ⓘ
  ▶ 0: {name: 'Amit', age: 26, salary: 10000, dob: '15/05/1995'}
  ▶ 1: {name: 'Akash', age: 23, salary: 12000, dob: '28/08/1998'}
  ▶ 2: {name: 'Anuj', age: 22, salary: 6000, dob: '25/03/1999'}
    length: 3
  ▶ [[Prototype]]: Array(0)

groupPeople ▼ {22: Array(1), 23: Array(1), 24: Array(1), 25: Array(1), 26: Array(1)} ⓘ
  ▼ 22: Array(1)
    ▶ 0: {name: 'Anuj', age: 22, salary: 6000, dob: '25/03/1999'}
      length: 1
    ▶ [[Prototype]]: Array(0)
  ▼ 23: Array(1)
    ▶ 0: {name: 'Akash', age: 23, salary: 12000, dob: '28/08/1998'}
      length: 1
    ▶ [[Prototype]]: Array(0)
  ▶ 24: [{...}]
  ▶ 25: [{...}]
  ▶ 26: [{...}]
  ▶ [[Prototype]]: Object

Updated list after increment ▼ (2) [{...}, {...}] ⓘ
  ▶ 0: {name: 'Rahul', age: 24, salary: 2000, dob: '07/11/1993'}
  ▶ 1: {name: 'Nehaaaa', age: 25, salary: 1500, dob: '01/08/1994'}
    length: 2
  ▶ [[Prototype]]: Array(0)
```

>