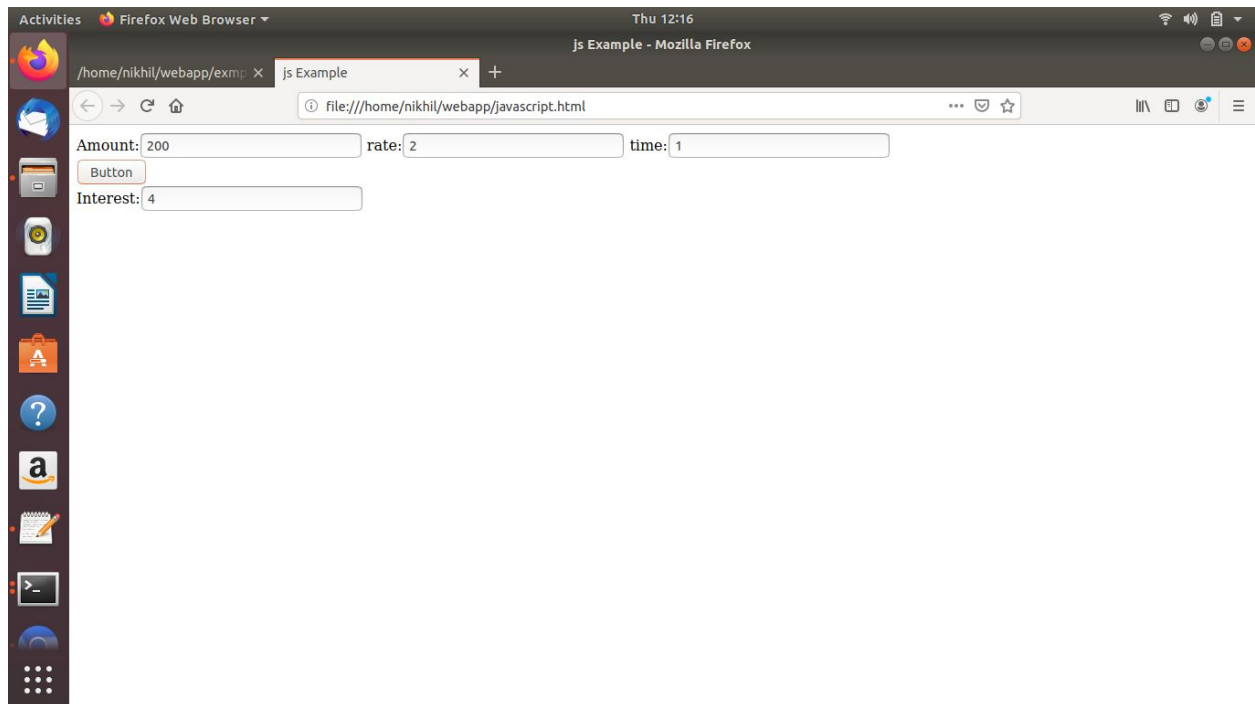


Q1.Prompt for amount, interest rate and no. of years and calculate simple interest.

Ans.



Code:-

HTML:-

```
<html>
<head>
<title>js Example</title>
<script src="javascript.js"></script>
</head>
<body>
  <form>
    Amount:<input type="Text" id="amount"/>
    rate:<input type="Text" id="rate"/>
    time:<input type="Text" id="time"/>
    <br/>
    <button onclick="fun1(event)">Button</button><br/>
    interest:<input type="text" id="si" />
  </form>
</body>
</html>
```

JS:-

```
function fun1(){
  event.preventDefault();
  var a=document.getElementById("amount").value;
```

```

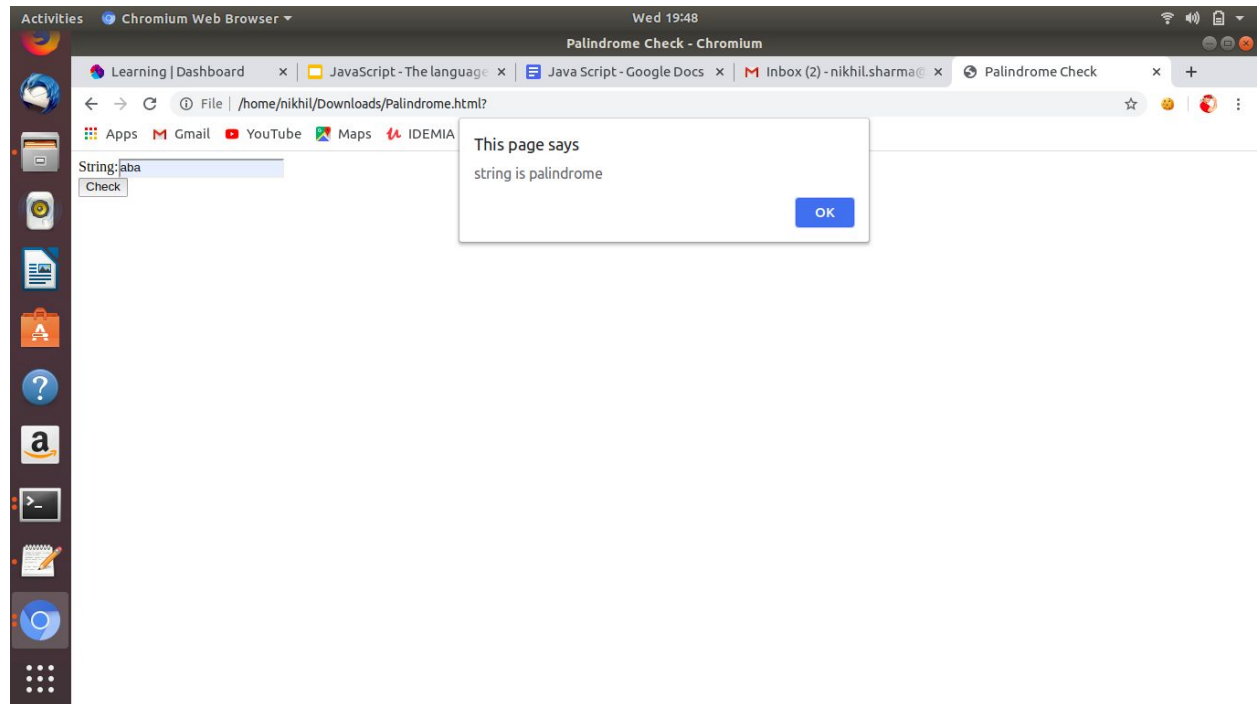
var r=document.getElementById("rate").value;
var t=document.getElementById("time").value;
document.getElementById("si").value=(a*r*t)/100;;

}

```

Q2.is palindrome string

Ans.



HTML:-

```

<html>
<head>
<title>Palindrome Check</title>
<script src="palindrome.js"></script>
</head>
<body>
    <form>
        String:<input type="text" id="txt"/><br>
        <button onclick="fun1()">Check</button>
    </form>
</body>
</html>

```

JS:-

```

function fun1(){

```

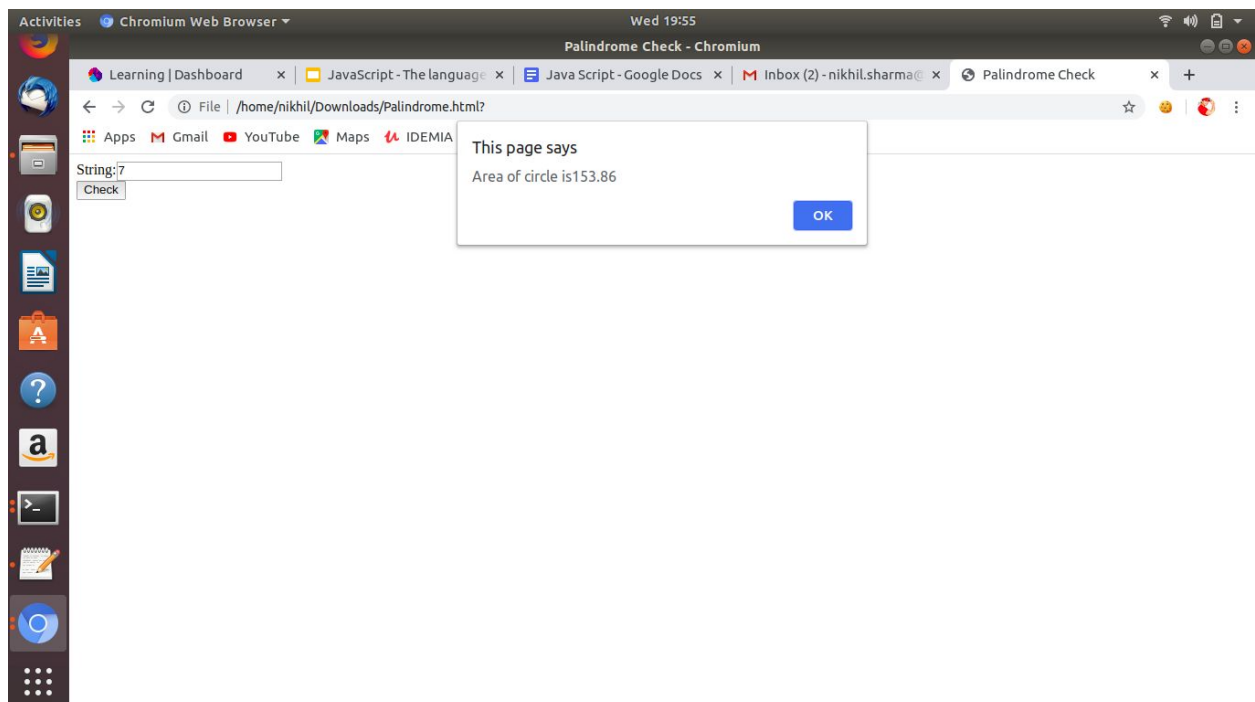
```

var s=document.getElementById("txt").value;
var i=0;
var c=0;
var j=s.length-1;
while(i<=j){
    if(s[i]!=s[j]){
        c=1;
        break;
    }
    i++;
    j--;
}
if(c!=0){
    alert("String is not palindrome");
}
else{
    alert("string is palindrome");
}
}

```

Q3.Area of circle

Ans.



HTML:-

```

<html>
<head>

```

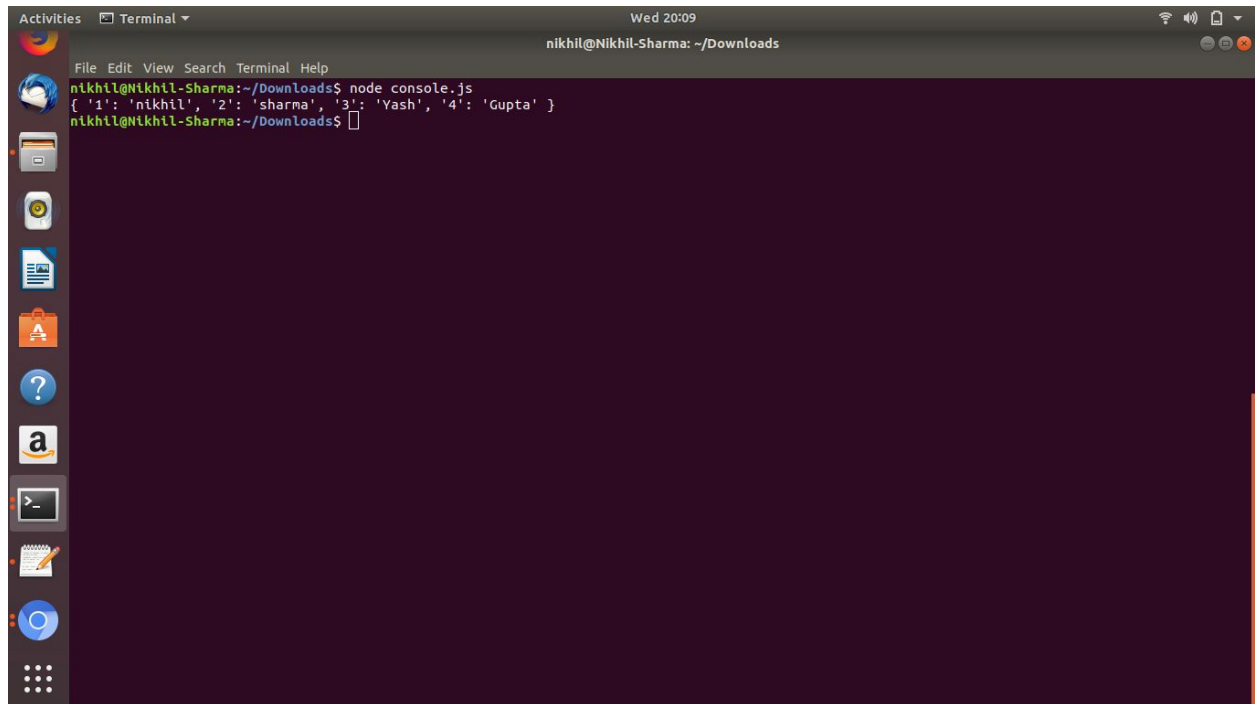
```
<title>Palindrome Check</title>
<script src="Area.js"></script>
</head>
<body>
    <form>
        String:<input type="number" id="txt"/><br>
        <button onclick="fun1()">Check</button>
    </form>
</body>
</html>
```

JS:-

```
function fun1(){
    var pi=3.14;
    var r=document.getElementById("txt").value;
    alert("Area of circle is" +(pi*r*r));
}
```

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

Ans.

A screenshot of a Linux terminal window. The title bar shows 'Activities', 'Terminal', and the date 'Wed 20:09'. The terminal content shows the user 'nikhil@Nikhil-Sharma' in the directory '~/Downloads'. They have run the command 'node console.js', which outputs a JavaScript object: '{ '1': 'nikhil', '2': 'sharma', '3': 'Yash', '4': 'Gupta' }'. The terminal has a dark purple background and a sidebar on the left with various application icons.

```
nikhil@Nikhil-Sharma:~/Downloads$ node console.js
{ '1': 'nikhil', '2': 'sharma', '3': 'Yash', '4': 'Gupta' }
```

JS:-

```
let ob1={
  1:'nikhil',
  2:'sharma',
  3:'Yash',
```

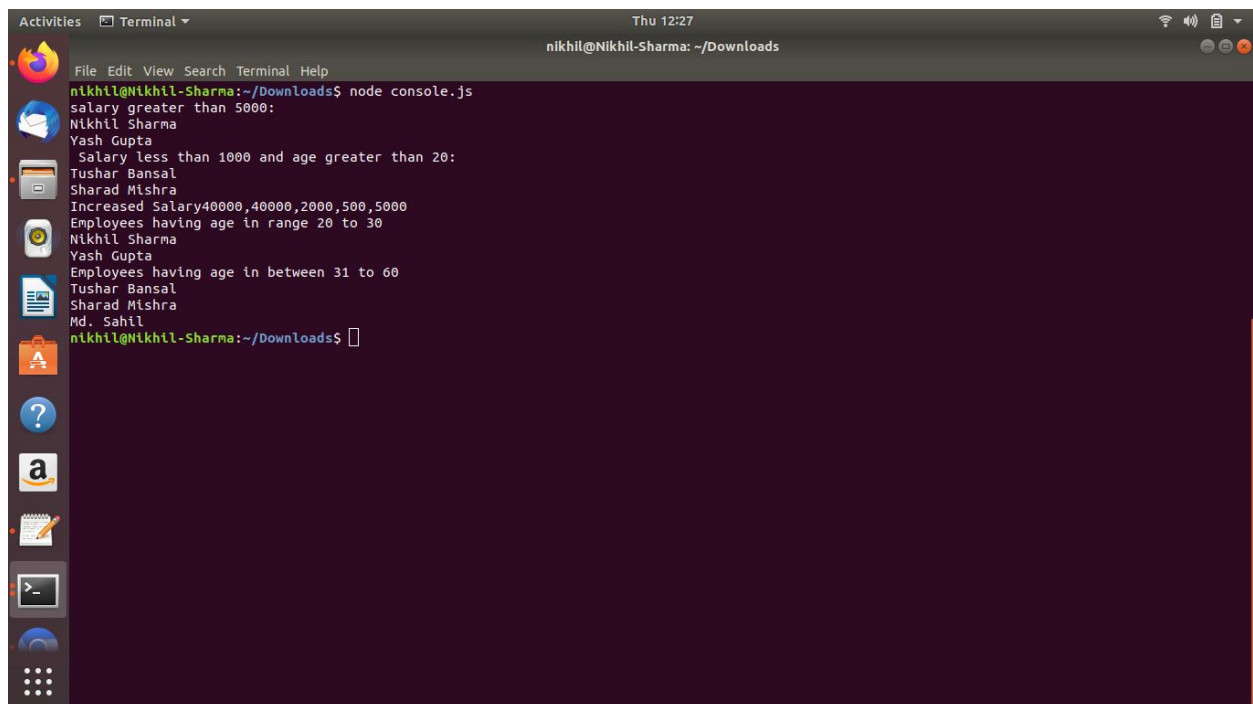
```
4:'Gupta'  
};
```

```
let ob2=ob1;  
console.log(ob2);
```

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.

Ans.



```
nikhil@Nikhil-Sharma:~/Downloads$ node console.js  
salary greater than 5000:  
Nikhil Sharma  
Yash Gupta  
Salary less than 1000 and age greater than 20:  
Tushar Bansal  
Sharad Mishra  
Increased Salary40000,40000,2000,500,5000  
Employees having age in range 20 to 30  
Nikhil Sharma  
Yash Gupta  
Employees having age in between 31 to 60  
Tushar Bansal  
Sharad Mishra  
Md. Sahil  
nikhil@Nikhil-Sharma:~/Downloads$
```

Code:

```
let ob1={  
'name':['Nikhil Sharma','Yash Gupta','Tushar Bansal','Sharad Mishra','Md. Sahil'],  
'age':[20,22,31,52,42],  
'salary':[40000,40000,400,100,5000],  
'dob':['10-10-1999','07-10-1997','20-08-1998','02-03-1997','20-10-1997']  
};
```

```
console.log("salary greater than 5000:");  
for(var i=0;i<ob1.salary.length;i++){  
    if(ob1.salary[i]>5000)  
        console.log(ob1.name[i]);
```

```
}
console.log(" Salary less than 1000 and age greater than 20:")
for(var i=0;i<ob1.salary.length;i++){
    if(ob1.salary[i]<1000 && ob1.age[i]>20){
        console.log(ob1.name[i]);
        ob1.salary[i]=ob1.salary[i]*5;
    }
}
console.log("Increased Salary"+ob1.salary);
console.log("Employees having age in range 20 to 30")
for(var i=0;i<ob1.age.length;i++){
    if(ob1.age[i]>=20 && ob1.age[i]<=30)
        console.log(ob1.name[i]);
}
console.log("Employees having age in between 31 to 60")
for(var i=0;i<ob1.age.length;i++){
    if(ob1.age[i]>30 && ob1.age[i]<=60)
        console.log(ob1.name[i]);
}
```