

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

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8"></meta>
    <title></title>

    <script type="text/javascript">
        function f1()
        {
            //flag=true;

            var amount=Number(window.prompt("enter amount"));

            if (isNaN(amount) || amount=="")
            {
                alert("Must input numbers");
                return false;
            }

            var rate=Number(window.prompt("enter rate of
                                            interest"));
            if (isNaN(rate) || rate=="")
            {
                alert("Must input numbers");
                return false;
            }

            var time=Number(window.prompt("enter no. of years"));
```

```
if (isNaN(time) || time=="")
{
    alert("Must input numbers");
    return false;
}
```

```
var SI=(amount*rate*time)/100;
```

```
window.alert("the calculated Simple interest is "+SI);
```

```
// window.confirm("are you sure?");
}
```

```
f1()
```

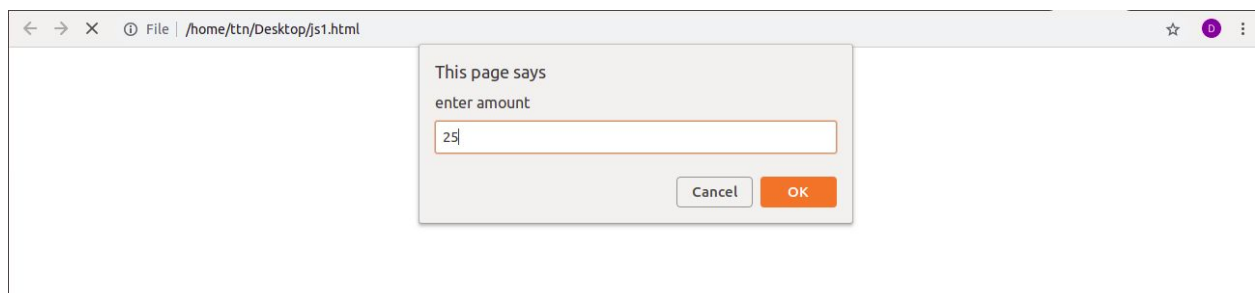
```
</script>
```

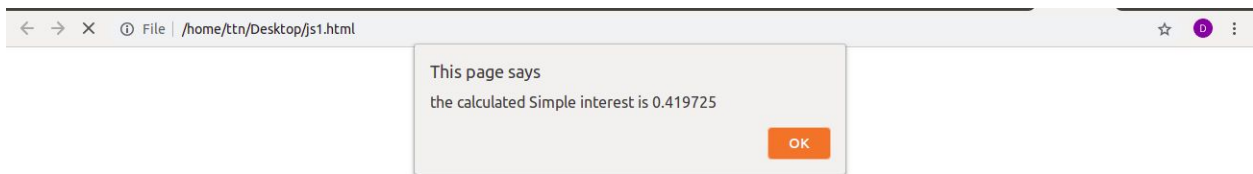
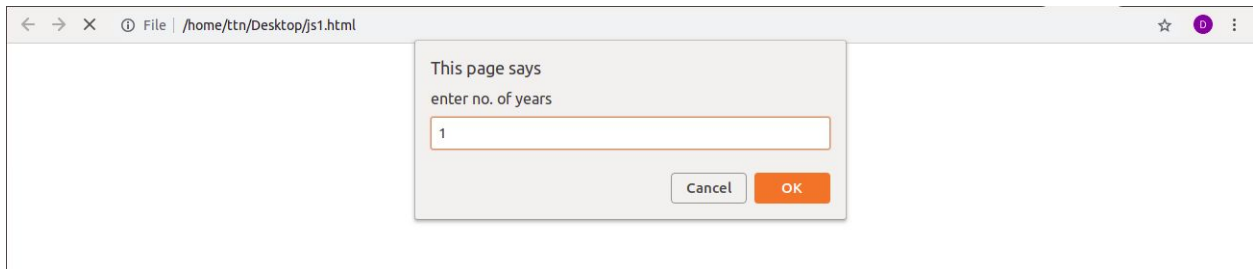
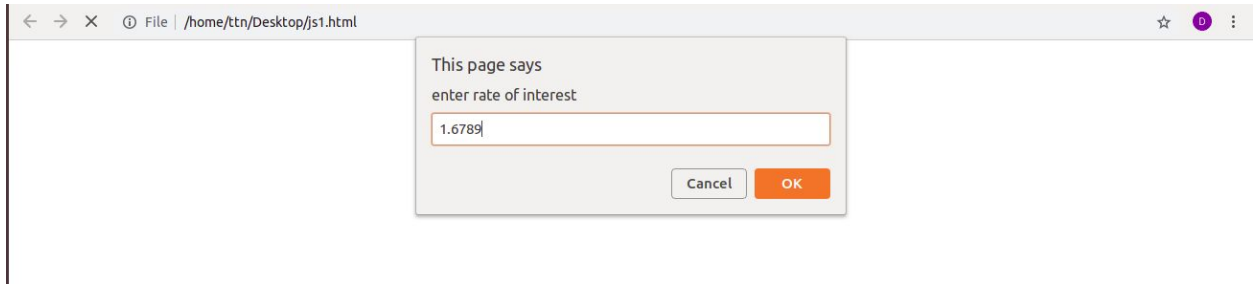
```
</head>
```

```
<body>
```

```
</body>
```

```
</html>
```





2. is palindrome string

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
  <meta charset="utf-8">
```

```
  <title></title>
```

```
  <script type="text/javascript">
```

```
    function f1()
```

```
    {
```

```
        //    var ch="y";
```

```
        var flag=true;
```

```
        do{
```

```
            var str1=window.prompt("enter your string");
```

```
        if(str1.length > 0)
```

```
        {
```

```
            var str2=str1.substr(0);
```

```
            str2=str2.split("").reverse().join("");
```

```
            flag=false;
```

```
            console.log(flag+" "+str1+" "+str2);
```

```
            if(str1==str2)
```

```
            {
```

```
                window.alert("Yes the string is palindrome");
```

```
                console.log(flag+"OK1");
```

```
            }
```

```
            else
```

```
            {
```

```
                window.alert("No the string is not
```

```
palindrome");
```

```
                console.log(flag+"OK2");
```

```
            }
```

```
        }
```

```
        else
        {
            window.alert("string should not be blank");
            console.log(flag+"OK3");
            flag=true;
        }

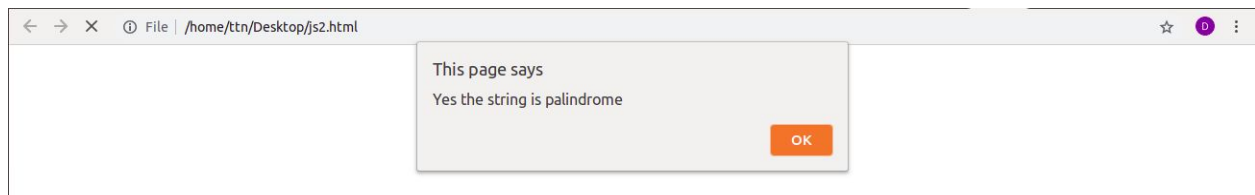
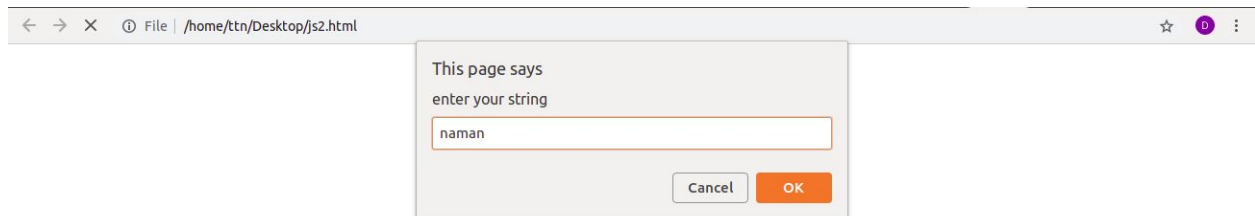
        //ch=prompt("want to continue?y/n");

    }while(flag);
}

f1()

</script>
</head>
<body>

</body>
</html>
```



3.Area of circle

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <title></title>
```

```
    <script type="text/javascript">
```

```
        function f1()
```

```
        {
```

```
            flag=true;
```

```
            var radius=Number(window.prompt("enter  
the radius"));
```

```
            if ( isNaN(radius) || radius=="" || radius <= 0)
```

```
            {
```

```
                alert("Must input valid numbers as radius");
```

```
                flag=false;
```

```
            }
```

```
else
{

var area=(radius*radius)*Math.PI;

window.alert("the calculated Area is
"+ area);

}

}

f1()

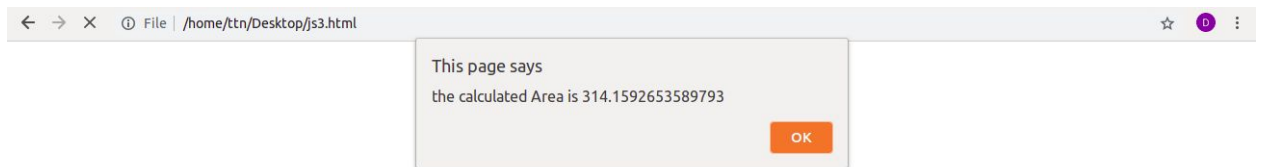
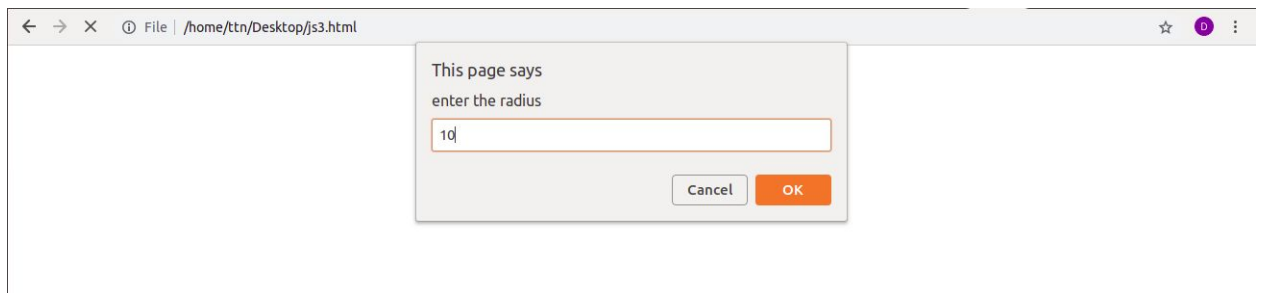
</script>
```

</head>

<body>

</body>

</html>



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

```
<!DOCTYPE html>
```

```
<html>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <title></title>
```

```
    <script type="text/javascript">
```

```
        function f1()
```

```
        {
```

```
            var obj1={"key1":"10", "key2":"100"};
```

```
            console.log("-----method1-----\n")
```

```
            console.log(obj1);
```

```
            var obj2=Object.create(obj1);
```

```
            console.log(obj2);
```

```
var obj3=obj1;
```

```
console.log(obj3);
```

```
obj1.key2="101";
```

```
console.log("testing copy3");
```

```
console.log(obj3);
```

```
console.log("testing original object");
```

```
console.log(obj1);
```

```
console.log("testing copy2");
```

```
console.log(obj2);
```

```
console.log("-----method2-----\n")
```

```
console.log("\n\n\nnew example");
```

```
let obj = {
```

```
    a: 1,
```

```
    b: 2,
```

```
    c: {x: 7, y: 4,},
```

```
};
```

```
let copy = obj;
```

```
obj.a = 5;
```

```
console.log(copy.a);
```

```
// Result
```

```
// a = 5;
```

```
console.log("-----method3-----\n")
```

```
let newNaiveCopy={};
```

```
for( var key in obj)
{
    newNaiveCopy[key]=obj[key];
}
```

```
example");
console.log("\n\n\nnewNaiveCopy
```

```
obj.a = 15;
console.log(newNaiveCopy.a);
```

```
obj.c.x=9;
//obj.a = 15;
```

```
console.log(newNaiveCopy.c.x+"\n\n\n");
```

```
console.log("-----method4-----\n")
```

```
let objCopy = Object.assign({}, obj);
```

```
console.log(objCopy); // result - { a:
```

```
15, b: 2 }
```

```
objCopy.b = 89;
```

```
console.log(objCopy); // result - { a:
```

```
15, b: 89 }
```

```
console.log(obj); // result - { a: 15,
```

```
b: 2 }
```

```
console.log("-----method5-----\n")
```

```
let newObj = { ...obj };
```

```
console.log(newObj);
```

```
obj.c.x=90;
```

```
console.log(newObj);
```

```
}
```

```
f1()
```

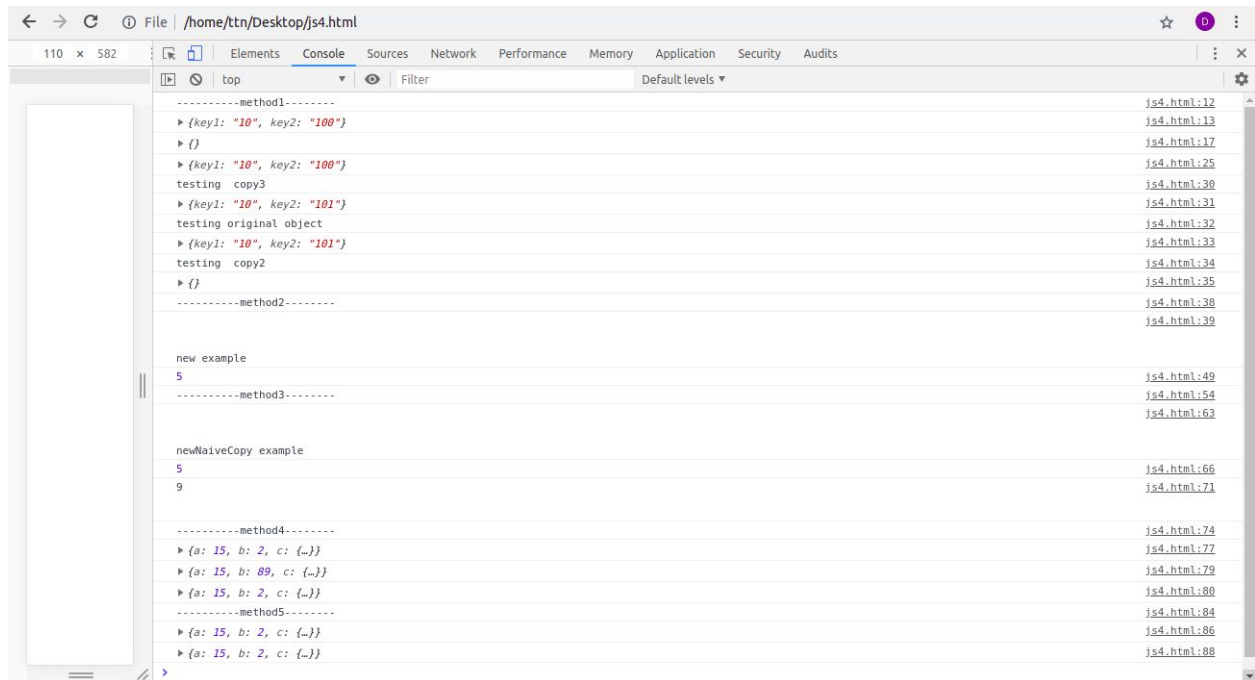
```
</script>
```

```
</head>
```

```
<body>
```

```
</body>
```

```
</html>
```



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>
```

```
<head>
```

```
    <meta charset="utf-8">
```

```
    <title>employee</title>
```

```
</head>
```

```
<body>
```

```
</body>
```

```
<script type="text/javascript">
```

```
    employee1={
```

```
        "name":"employee1",
```

```
        "age" :22,
```

```
        "salary":4500,
```

```
        "dob" :new Date(1996,10,16)
```



```
}
```

```
employee2={
```

```
    "name":"employee2",
```

```
    "age" :18,
```

```
    "salary":4000,
```

```
    "dob" :new Date(2000,9,16)
```

```
}
```

```
employee3={
```

```
    "name":"employee3",
```

```
    "age" :25,
```

```
    "salary":6000,
```

```
    "dob" :new Date(1994,1,16)
```

```
}
```

```
employee4={
```

```
    "name":"employee4",
```

```
    "age" :18,
```

```
    "salary":8000,
```

```
    "dob" :new Date(2001,20,1)
```

```
}
```

```
employee5={  
    "name":"employee5",  
    "age" :20,  
    "salary":900,  
    "dob" :new Date(1999,2,2)  
}
```

```
employee6={  
    "name":"employee6",  
    "age" :24,  
    "salary":800,  
    "dob" :new Date(1994,10,16)  
}
```

```
employee7={  
    "name":"employee7",  
    "age" :24,  
    "salary":5001,  
    "dob" :new Date(1995,1,1)  
}
```

```
employee8={
    "name":"employee8",
    "age" :30,
    "salary":5000,
    "dob" :new Date(1989,1,15)
}

var
listEmployee=[employee1,employee2,employee3,employee4,employee5,employee6,employee7,employee8]

console.log("\n\nquery1____Name, age, salary, DOB____\n")

var que1=listEmployee.filter(function(c,i){

    console.log(c)

})
```

//console.log(listEmployee) if done then it would show changes here
also after applying query3

```
        console.log("\n\nquery2____all employees with salary greater  
than 5000_____\n")
```

```
        var great1=listEmployee.filter(function(c,i){
```

```
            if(c.salary>5000)
```

```
                console.log(c)
```

```
        })
```

```
console.log("\n\nquery3____group employee on the basis of their  
age_____\n")
```

```
listEmployee.groupBy=function(age){
```

```
    return this.reduce(function(groups,item)
```

```
    {
```

```
        const val=item['age']
```

```
        groups[val]=groups[val]|| []
```

```
        groups[val].push(item)
```

return groups

}, {})

}

grbyage=listEmployee.groupBy("age");

console.log(grbyage);

console.log("\n\nquery4_____employees with salary less than 1000
and age greater than 20.Then give them an increment 5 times their salary\n")

var filtered=listEmployee.filter(function(c,i){

if(c.salary>5000 && c.age>20)

{console.log(c)

// c.salary+=c.salary*5

return c;

}

```
})
```

```
console.log("filtered",filtered)
```

```
filtered.map (function(c,i){c.salary=c.salary+c.salary*5  
    console.log(c)})
```

```
</script>
```

```
</html>
```

← → ↻ ⓘ File

/home/ttn/Desktop/js_5.html

☆ 0 ⋮

110 x 582

🔍

Elements

Console

Sources

Network

Performance

Memory

Application

Security

Audits

⋮ ×

🔍

top

▼

Filter

Default levels ▼

⚙

js_5.html:64

query1____Name, age, salary, DOB____

▶ {name: "employee1", age: 22, salary: 4500, dob: Sat Nov 16 1996 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee2", age: 18, salary: 4000, dob: Mon Oct 16 2000 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee3", age: 25, salary: 6000, dob: Wed Feb 16 1994 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee4", age: 18, salary: 8000, dob: Sun Sep 01 2002 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee5", age: 20, salary: 900, dob: Tue Mar 02 1999 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee6", age: 24, salary: 800, dob: Wed Nov 16 1994 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee7", age: 24, salary: 5001, dob: Wed Feb 01 1995 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee8", age: 30, salary: 5000, dob: Wed Feb 15 1989 00:00:00 GMT+0530 (India Standard Time)}

js_5.html:75

query2____all employees with salary greater than 5000____

▶ {name: "employee3", age: 25, salary: 6000, dob: Wed Feb 16 1994 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee4", age: 18, salary: 8000, dob: Sun Sep 01 2002 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee7", age: 24, salary: 5001, dob: Wed Feb 01 1995 00:00:00 GMT+0530 (India Standard Time)}

js_5.html:78

query3____group employee on the basis of their age____

▶ {18: Array(2), 20: Array(1), 22: Array(1), 24: Array(2), 25: Array(1), 30: Array(1)}

js_5.html:90

query4____employees with salary less than 1000 and age greater than 20.Then give them an increment 5 times their salary

▶ {name: "employee3", age: 25, salary: 6000, dob: Wed Feb 16 1994 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee7", age: 24, salary: 5001, dob: Wed Feb 01 1995 00:00:00 GMT+0530 (India Standard Time)}

filtered ▶ (2) [{-}, {-}]

▶ {name: "employee3", age: 25, salary: 36000, dob: Wed Feb 16 1994 00:00:00 GMT+0530 (India Standard Time)}

▶ {name: "employee7", age: 24, salary: 30006, dob: Wed Feb 01 1995 00:00:00 GMT+0530 (India Standard Time)}

js_5.html:104

▶