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

A.

```html
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Learning js</title>

</head>

<body>

<p id="demo">The Simple Interest is:</p>

<script>

 function interest() {

  'use strict';

  var amount=prompt('Enter amount');

  var rate=prompt('Enter rate');

  var time=prompt('Enter no. of years');

  var SI=amount*rate*time/100;

  return SI;

 }

document.write(interest());

</script>

</body>

</html>
```
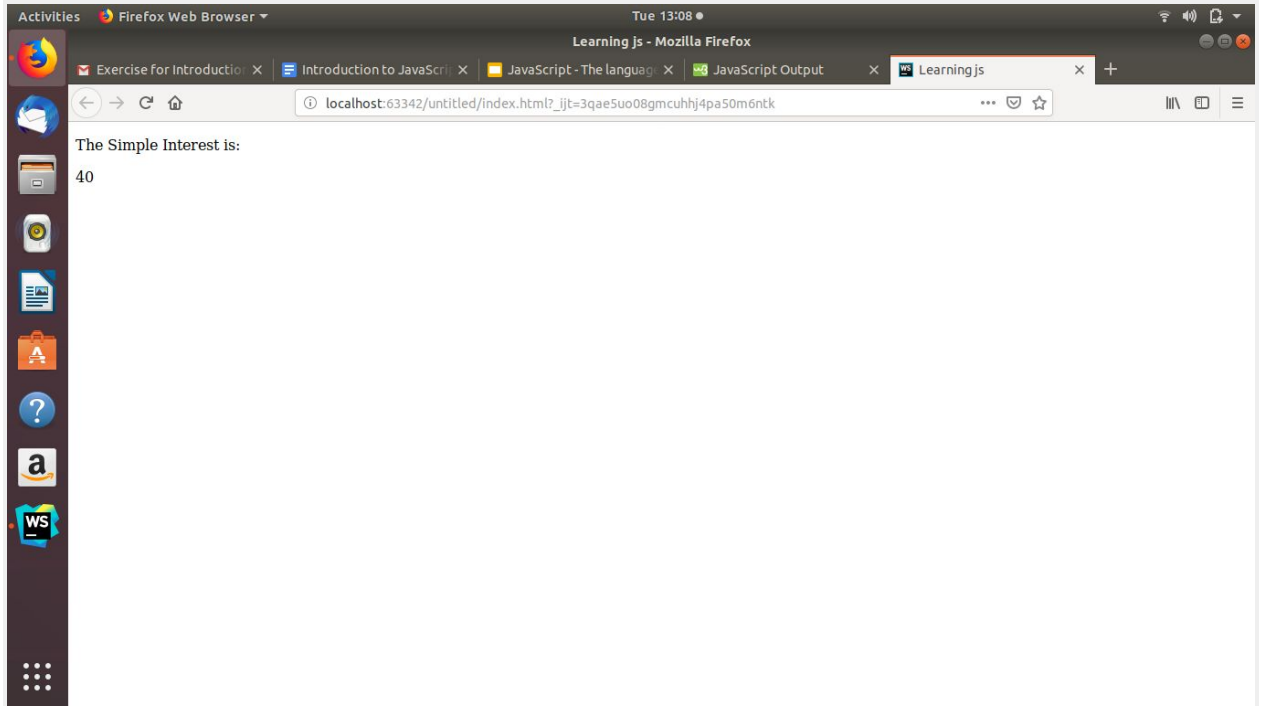
2. is palindrome string

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Learning js</title>

</head>

<body>

<p id="demo">Palindrome Test</p>

<script>

var str=prompt("Enter string");

var str1="";

var len=str.length;
```

```javascript
for(var i=len-1;i>-1;i--){

  str1=str1+ str.charAt(i);

}

if(str==str1){

 document.write("Palindrome");

}

else

 document.write("Not Palindrome");

</script>

</body>

</html>
```
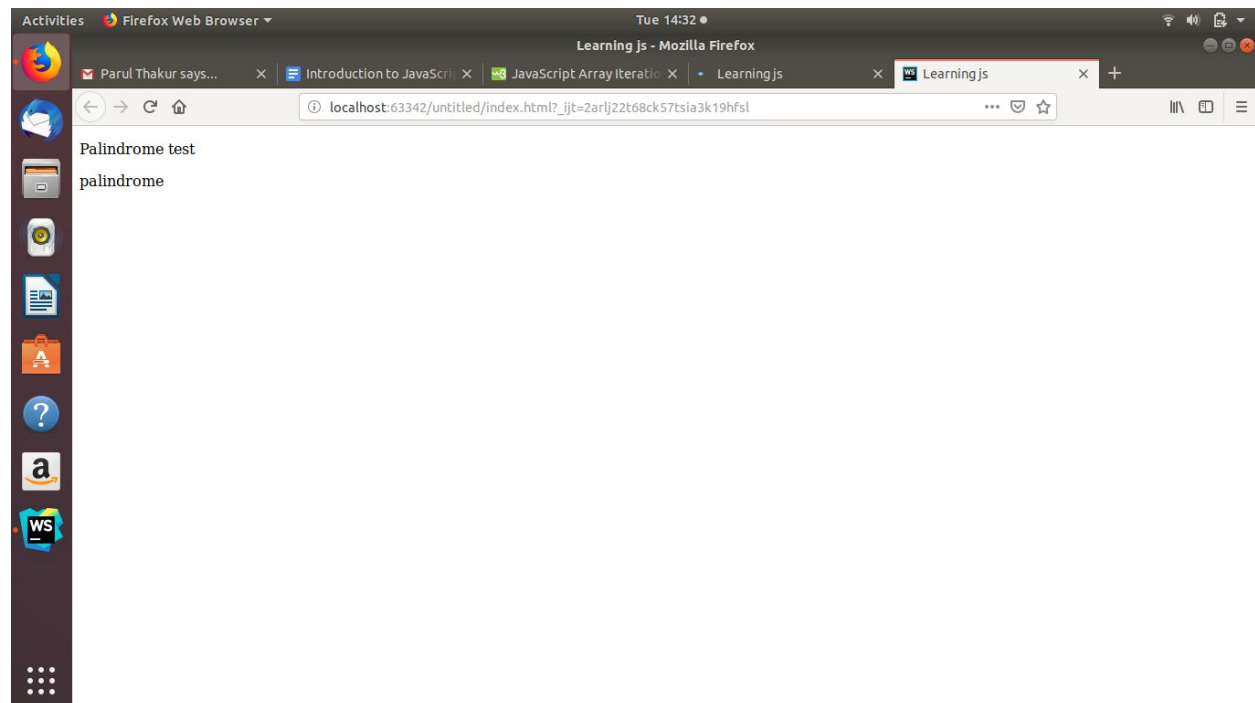


3. Area of circle

A.

```html
<!DOCTYPE html>

<html lang="en">

<head>

    <meta charset="UTF-8">

    <title>Learning js</title>

</head>

<body>

<p id="demo">Area of circle</p>

<script>

 function area_of_circle() {

    'use strict';

    var r=prompt("Enter radius of circle");

    var area=3.14*r*r;

    return area;

 }

    document.write(area_of_circle());

</script>

</body>

</html>
```
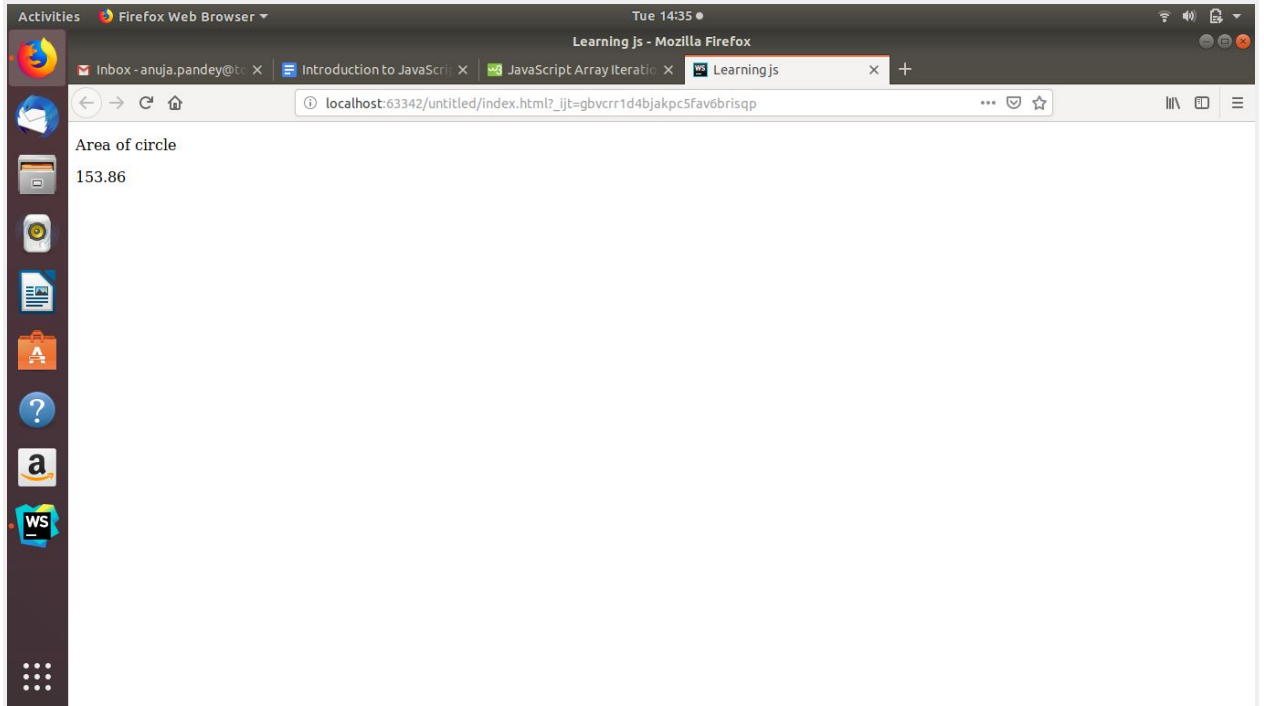
4. Copy information of one object to another and log it to console.

```html
<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

 <title>Learning js</title>

</head>

<body>

<p id="demo">Clone Object</p>

<script>

 var obj={Name:"Akhil", Age:23, Salary:10000, DOB:"02/02/1996"};

 var obj1={};

 for(var i in obj){
```
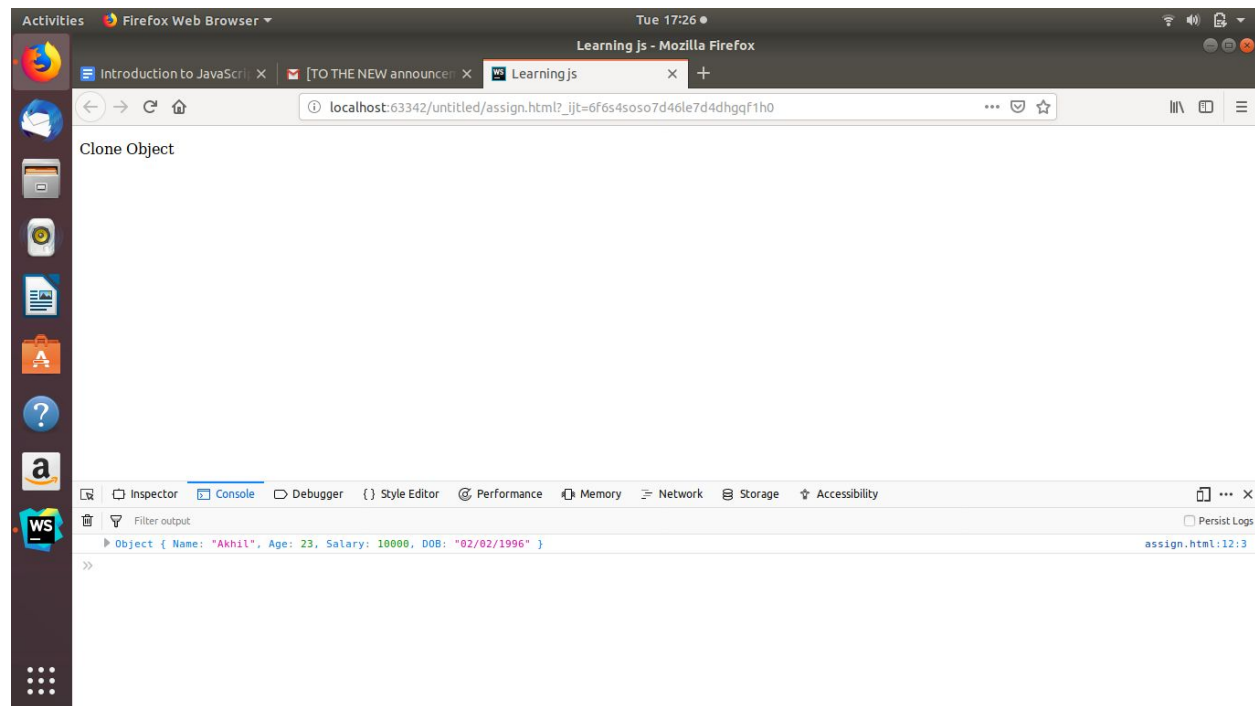
```
        obj1.Name=obj.Name;

        obj1.Age=obj.Age;

        obj1.Salary=obj.Salary;

        obj1.DOB=obj.DOB;

    }

    console.log(obj1);

</script>

</body>

</html>
```



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

```
<!DOCTYPE html>
```

```html
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Learning js</title>
</head>
<body>
<p id="demo">Clone Object</p>
<script>
var obj={Name:"Akhil", Age:23, Salary:10000, DOB:"02/02/1996"};
var obj1= Object.create(obj);
obj1.Name="Anuja";
obj1.Age=22;
obj1.Salary=15000;
obj1.DOB="22/11/1997";
console.log(obj1);
</script>
</body>
</html>
```

Clone Object

```
▶ Object { Name: "Anuja", Age: 22, Salary: 15000, DOB: "22/11/1997" }                    index.html:16:3
```

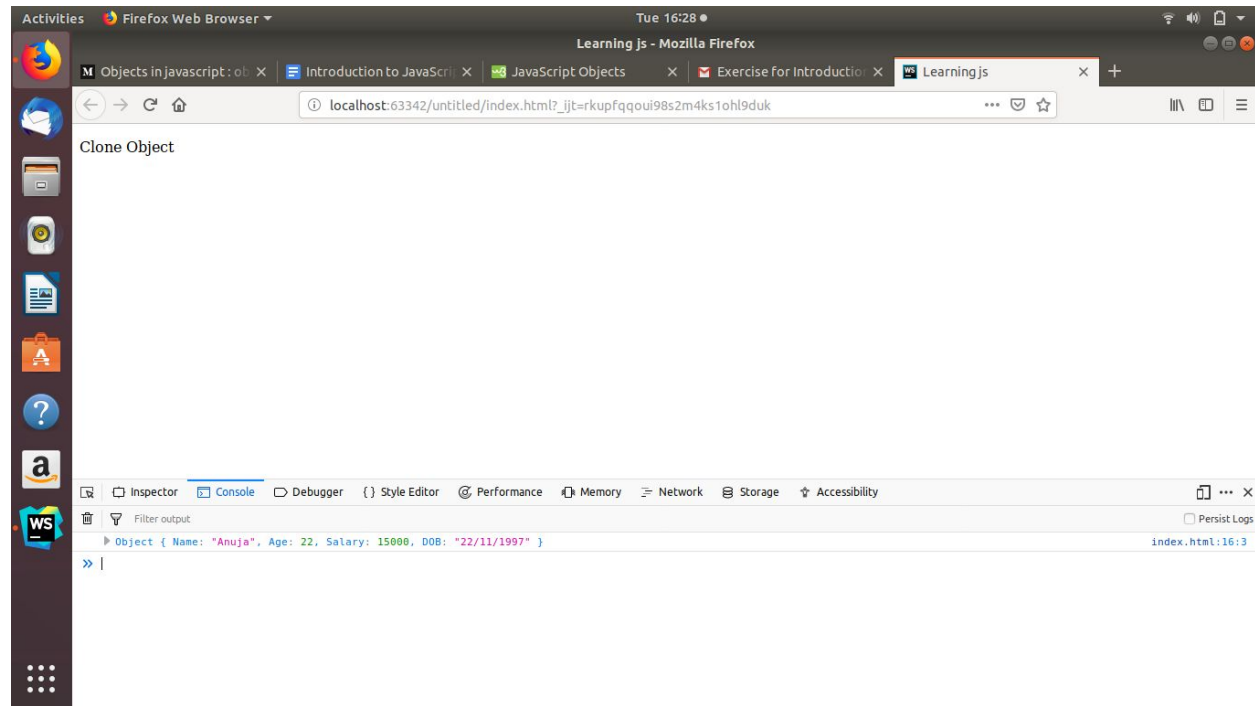○  filter all employees with salary greater than 5000

```html
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <title>Learning js</title>
</head>
<body>
<p id="demo">Clone Object</p>
<script>
var obj={Name:"Akhil", Age:23, Salary:10000, DOB:"02/02/1996"};
var obj1= Object.create(obj);
obj1.Name="Anuja";
obj1.Age=22;
obj1.Salary=15000;
obj1.DOB="22/11/1997";
var obj2= Object.create(obj);
obj2.Name="Pallavi";
obj2.Age=22;
obj2.Salary=4000;
obj2.DOB="24/03/1996";
var a=[obj,obj1,obj2];
for(var i=0;i<3;i++){
```
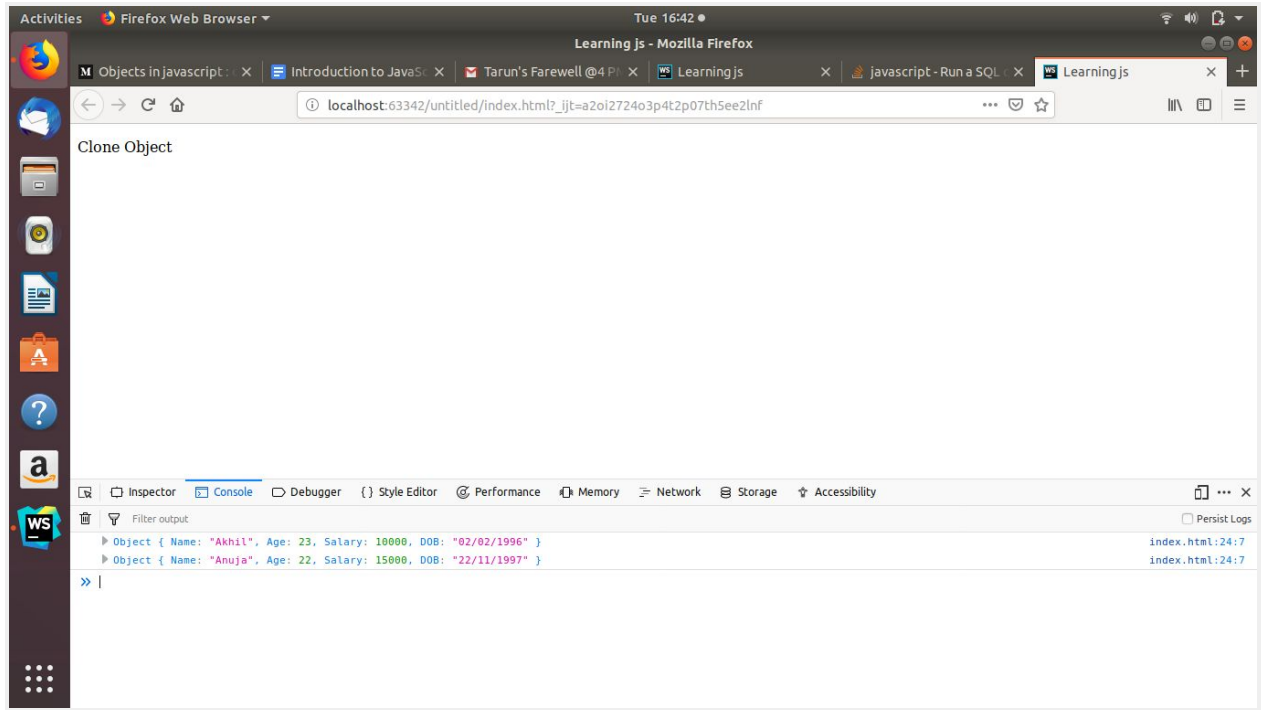
```
    if(a[i].Salary>5000) {
      console.log(a[i]);
    }
  }
}
</script>
</body>
</html>
```



- ○ group employee on the basis of their age

```
<!DOCTYPE html>

<html lang="en">

<head>

 <meta charset="UTF-8">

 <title>Learning js</title>

</head>

<body>

<p id="demo">Clone Object</p>

<script>
```

```javascript
var obj={Name:"Akhil", Age:32, Salary:999, DOB:"02/02/1987"};

var obj1= Object.create(obj);

obj1.Name="Anuja";

obj1.Age=22;

obj1.Salary=15000;

obj1.DOB="22/11/1997";

var obj2= Object.create(obj);

obj2.Name="Pallavi";

obj2.Age=22;

obj2.Salary=4000;

obj2.DOB="24/03/1996";

var a=[obj,obj1,obj2];

var list={};

for(var i=0;i<3;i++){

  if(!list[a[i].Age])

    list[a[i].Age]=[a[i]];

  else

    list[a[i].Age].push(a[i]);


}

console.log(list);

</script>

</body>

</html>
```
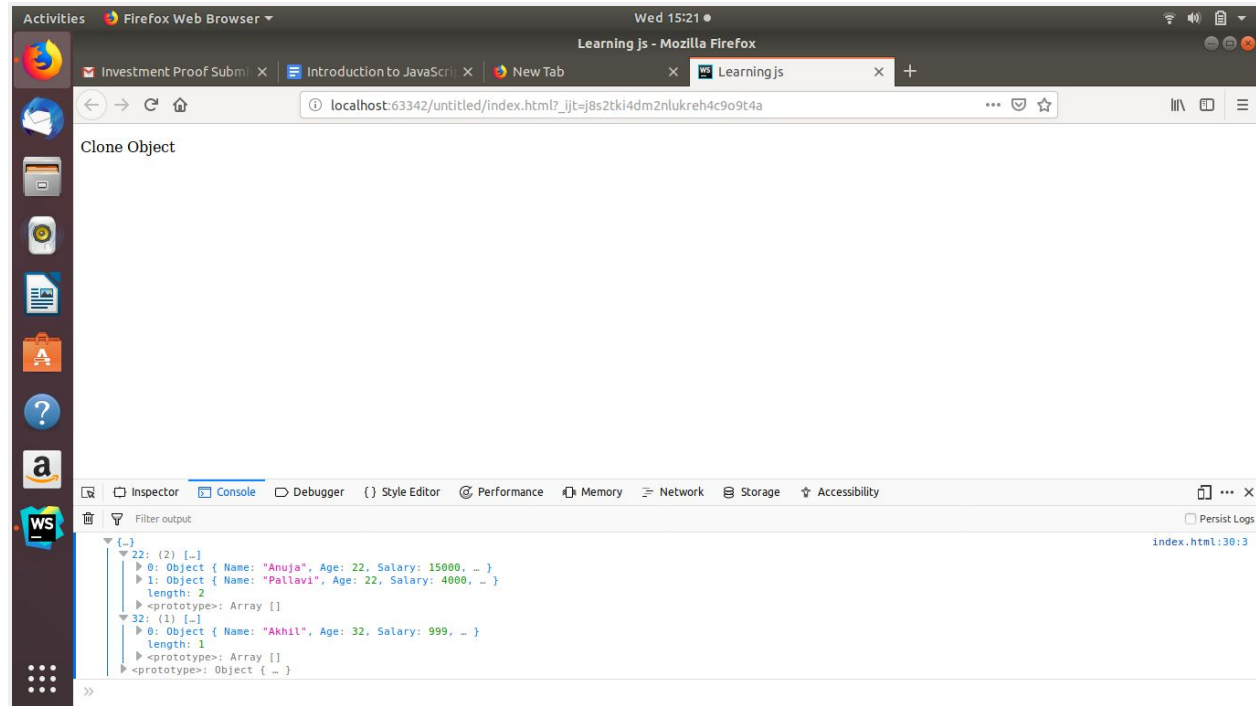
- ○ fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.

```
<!DOCTYPE html>

<html lang="en">

<head>

  <meta charset="UTF-8">

  <title>Learning js</title>

</head>

<body>

<p id="demo">Clone Object</p>

<script>

  var obj={Name:"Akhil", Age:32, Salary:999, DOB:"02/02/1987"};

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

```javascript
obj1.Name="Anuja";

obj1.Age=22;

obj1.Salary=15000;

obj1.DOB="22/11/1997";

var obj2= Object.create(obj);

obj2.Name="Pallavi";

obj2.Age=22;

obj2.Salary=4000;

obj2.DOB="24/03/1996";

var a=[obj,obj1,obj2];

for(var j=0;j<3;j++){

  if((a[j].Age>20)&&(a[j].Salary<1000)) {

    console.log(a[j]);

    var obj3= Object.create(obj);

    obj3.Name=a[j].Name;

    obj3.Age=a[j].Age;

    obj3.Salary=a[j].Salary*5;

    obj3.DOB=a[j].DOB;

   console.log(obj3);

  }

 }

</script>

</body>

</html>
```

Clone Object

```
Object { Name: "Akhil", Age: 32, Salary: 999, DOB: "02/02/1987" }     index.html:24:7
Object { Name: "Akhil", Age: 32, Salary: 4995, DOB: "02/02/1987" }     index.html:30:7
```