```html
<html>
<head>
    <script>
        function area() {
            var radius = prompt("enter the radius");
            var area = 3.14 * radius * radius;
            alert("Area of circle is " + area);
        }
        function calculatesi() {
            var p = prompt("enter the principle");
            var r = prompt("enter the rate");
            var t = prompt("enter the time in years");
            var si= (p*r*t)/100;
            alert(" SI is" + si);
        }
        function palindrome() {
            var str= prompt("enter the string");
            var i;
            var str2="";
            for(i=str.length-1;i>= 0;i--)
            {
                str2 += str.charAt(i);
            }
            if(str == str2)
            {
                alert("yes its a palindrome");
            }
            else
            {
                alert("no its not a palindrome");
            }
        }
        function copyObject() {
            var obj={
                "name" : "prabh",
                "abc" : 1
            }
            var objcopy = obj;
            obj.abc = 100;
            console.log(objcopy.abc);
        }
        var list = [{
            "name" : "abc",
            "age" : 20,
            "dob" : "01-01-2001",
            "salary" : 5000
        }, {
            "name" : "aaa",
            "age" : 25,
            "dob" : "02-02-2002",
            "salary" : 800
        }, {
            "name" : "bbb",
            "age" : 30,
            "dob" : "03-03-2003",
            "salary" : 8000
        },{
            "name" : "ccc",
            "age" : 35,
            "dob" : "04-04-2004",
            "salary" : 15000
        }];
        function filter() {
            var result="";
            var i;
            for (i = 0 ; i < list.length ; i++)
            {
                if(list[i].salary > 5000)
                {
```

```
                        result += "Name : " + list[i].name + ", Age : " + list[i].age + ",
DOB : " + list[i].dob + ", Salary : " + list[i].salary + "<br>";
                    }
                }
                document.getElementById("filterResult").innerHTML = result;
        }
        function group(){
            var ageGroup1="";
            var ageGroup2="";
            var i;
            document.write("Name of employees having Age between 20 and 30");
            for (i = 0 ; i < list.length ; i++)
            {
                if(list[i].age >= 20 && list[i].age <= 30)
                {
                    ageGroup1 += "<br>" + list[i].name + "<br>";
                }
                else
                {
                    ageGroup2 += "<br> Name of employees having age > 30 :" + "<br>" +
list[i].name + "<br>";
                }
            }
            document.write(ageGroup1);
            document.write(ageGroup2);
        }
        //fetch employees with salary less than 1000 and age greater than 20. Then give
them an increment 5 times their salary.

        function increment() {
            var obj = [];
            var i;
            for(i = 0 ; i < list.length ; i++)
            {
                if(list[i].salary > 1000 && list[i].age > 20)
                {
                    for(var x in list[i])
                    {
                        obj[i][x] = list[i][x];
                    }
                }
            }
            document.write(JSON.stringify(obj));
        }
    </script>
</head>
<body>
Calculate area of circle : <input type="button" name ="Area" value="Area"
onclick="area()"><br>
                Calculate si : <input type="button" name ="SI" value="SI"
onclick="calculatesi()"><br>
Is palindrome or not : <input type="button" name="Palindrome" value="Palindrome"
onclick="palindrome()"><br>
    copy object in cosole : <input type="button" name ="ObjectCopy" value="ObjectCopy"
onclick="copyObject()"><br>
<br>
Filter : <input type="button" value = "filter" onclick="filter()"><br>
Group : <input type="button" value="group" onclick="group()" > <br>
<p id="filterResult"></p>
Filter 2 : <input type="button" value = "Increment" onclick="increment()"><br>
</body>
</html>
```