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Exercise on Javascript By Anindya guha
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For all common webpages just by renaming the script pages. This is the html page common to all

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

```
p=prompt("enter the principal")
r=prompt("enter the rate")
t=prompt("enter the time")
function si(p,r,t){
  document.write((p*r*t)/100)
}
si(p,r,t);
```

2. is palindrome string

```
s=prompt("enter yur string")
```

```
function pal(s){
var flag=true;
var I = s.length-1;
for(var i=0; i<s.length/2;i++)
{
if(s.charAt(i)== s.charAt(I-i))
flag=true
else
flag=false
```

```
}
document.write(flag)
pal(s);
3. Area of Circle
s=prompt("enter the radius")
function area(){
 document.write(3.14*s*s)
}
area(s);
4. Copy information of one object to another and log it to console.
var object1 = {
 a: 1,
 b: 2.
 c: 3
};
var object2 = Object.assign(object1);
console.log(object2);
5.
    1. create a list of objects of Employee with info as follow:

    Name, age, salary ,DOB

           o filter all employees with salary greater than 5000
           o group employee on the basis of their age
           o fetch employees with salary less than 1000 and age greater than 20. Then give
              them an increment 5 times their salary.
// List of Objects of Employees
// Fields of Object are Name, Age, Salary, DOB
var employee_list = [
```

```
{ name: 'Anindya', age: 22, salary: 5000, dob: '7-7-1996'},
       { name: 'Rhik', age: 30, salary: 8000, dob: '5-11-1988'},
       { name: 'Akash', age: 45, salary: 3000, dob: '24-4-1973'},
       { name: 'Spandan', age: 45, salary: 2000, dob: '10-7-1973'},
       { name: 'Tania', age: 21, salary: 500, dob: '18-4-1997'},
       { name: 'Arpita', age: 18, salary: 800, dob: '11-10-2000'}
];
document.write("(Part1) <br > List of objects of Employee are:- <br > ")
employee_list.forEach(
       function(ele){
       document.write(JSON.stringify(ele) + "<br>")
)
// Filter all employees with salary greater than 5000
document.write("<br> (Part 2) <br> All employees with salary greater than 5000 are:- <br>")
c = 0
employee_list.forEach(
       function(ele){
       if (ele.salary \geq 5000){
       document.write(c + ". " + ele.name + "<br>")
       }
       }
)
// Group employees on the basis of their age
Array.prototype.groupBy = function(prop) {
       return this.reduce(function(groups, item) {
       const val = item[prop]
       groups[val] = groups[val] || []
       groups[val].push(item)
       return groups
       }, {})
 }
document.write("<br> (Part3) <br/> Grouped the objects of Employee by Age:- <br/> ")
document.write(JSON.stringify(employee_list.groupBy("age")) + "<br>");
// Fetch employees with salary less than 1000 and age greater than 20.
// Then give them an increment 5 times their salary.
document.write("<br/>br> (Part 4) <br/>br> All employees with salary less than 1000 and age greater
than 20 are:- <br>")
```

```
c = 0
employee_list.forEach(
                             function(ele){
                             if (ele.salary < 1000 && ele.age>20){
                             document.write(c + ". " + ele.name + ": " + ele.salary + "<br>")
                            }
                            }
)
document.write("<br> And now their salaries are incremented by 5 times:- <br>")
employee_list.forEach(
                             function(ele){
                             if (ele.salary < 1000 && ele.age>20){
                             ele.salary *=5
                             document.write(c + ". " + ele.name + ": " + ele.salary + "<br>")
                             }
                            }
)
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   (Part1)
   List of objects of Employee are:-
   "name": "Anindya", "age":22,"salary":5000, "dob":"7-7-1996"}

{"name": "Anindya", "age":30, "salary":8000, "dob":"5-11-1988"}

{"name": "Akash", "age":45, "salary":3000, "dob":"5-44-1973"}
    {"name":"Spandan","age":45,"salary":2000,"dob":"10-7-1973"}
    {"name":"Tania", "age":21, "salary":500, "dob": "18-4-1997"}
   {"name":"Arpita","age":18,"salary":800,"dob":"11-10-2000"}
   All employees with salary greater than 5000 are:-
   1. Anindya
   2. Rhik
   (Part3)
   Grouped the objects of Employee by Age:-
["18":[{"name":"Arpita","age":18,"salary":800,"dob":"11-10-2000"}],"21":[{"name":"Tania","age":21,"salary":500,"dob":"18-4-1997"}],"22":[{"name":"Anindya","age":22,"salary":5000,"dob":"7-7-1996"}],"30":[{"name":"Rhik","age":30,"salary":8000,"dob":"5-11-1988"}],"45":[{"name":"Akash","age":45,"salary":3000,"dob":"24-4-1973"},("name":"Spandan","age":45,"salary":2000,"dob":"10-7-1996"}],"30":[{"name":"Rhik","age":45,"salary":3000,"dob":"10-7-1996"}],"30":["name":"Rhik","age":45,"salary":3000,"dob":"10-7-1996"],"30":["name":"Rhik","age":45,"salary":3000,"dob":"10-7-1996"],"30":["name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Name":"Nam
   1973"}]}
   (Part 4)
   All employees with salary less than 1000 and age greater than 20 are:-
```

And now their salaries are incremented by 5 times:-

1. Tania: 2500