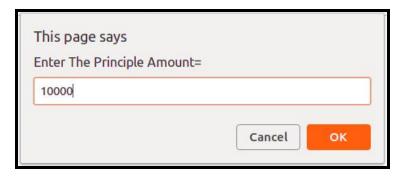
# **Exercise for Introduction to Javascript**

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

```
Si.html
<!DOCTYPE html>
<html>
<head>
  <title>Simple Interest</title>
</head>
<body>
  <script type="text/javascript" src="si.js"></script>
</body>
</html>
Si.js
(function() {
 'use strict';
var p=prompt("Enter The Principle Amount=");
var r=prompt("Enter The Rate of Interest= ");
var t=prompt("Enter The Number of Years= ");
var si=(p*r*t)/100;
alert("Simple Interest = " +si);
}());
```









#### 2. is palindrome string

```
Palindrome.html
```

else

```
<!DOCTYPE html>
<html>
<head>
  <title>Palindrome String</title>
</head>
<body>
  <script type="text/javascript" src="palindrome.js"></script>
</body>
</html>
Palindrome.js
var str=prompt("Enter a String=");
var low = str.toLowerCase();
 var splitString = low.split("");
     var reverseArray = splitString.reverse();
     var joinArray = reverseArray.join("");
if(joinArray==low)
{
  alert("Palindrome")
```

```
{
    alert("Not Palindrome")
}
```







```
This page says
Not Palindrome

OK
```

#### 3. Area of circle

```
Area.html

<!DOCTYPE html>

<html>

<head>

    <title>Area of Circle</title>

</head>

<body>

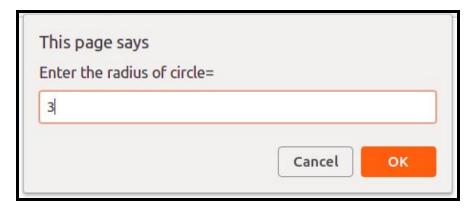
    <script type="text/javascript" src="area.js"></script>

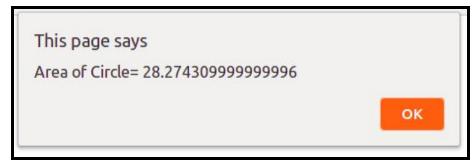
</body>
```

### <u>Area.js</u>

</html>

```
var radius=prompt("Enter the radius of circle= ");
var pie=3.14159;
var area=pie*radius*radius;
alert("Area of Circle= "+area);
```





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

## Objectcopy.html

```
<!DOCTYPE html>
<html>
```

<head>

<title>Object Copy</title>

</head>

<body>

<script type="text/javascript" src="objectcopy.js"></script>

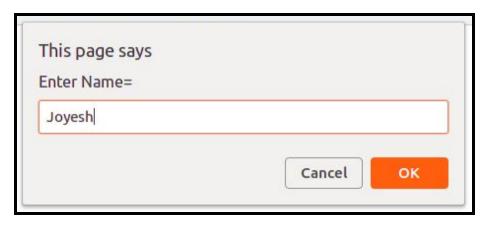
</body>

</html>

### Objectcopy.js

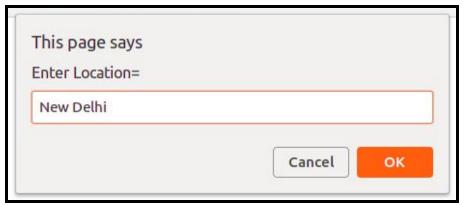
var mydetails = {name:prompt("Enter Name= "), college:prompt("Enter
College= "), age:prompt("Enter Age= "), location:prompt("Enter Location=
")};

console.log("My Original Object= ",mydetails)
var copyobject = Object.assign({},mydetails);
console.log("My New Object= ",copyobject);











#### 5. create a list of objects of Employee with info as follow:

- a. Name, age, salary ,DOB
- b. filter all employees with salary greater than 5000
- c. group employee on the basis of their age
- d. fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.

```
Objectgroup.html
<!DOCTYPE html>
<html>
<head>
      <title>Object Group</title>
</head>
<body>
  <script type="text/javascript" src="objectgroup.js"></script>
</body>
</html>
Objectgroup.js
var employee = [
     { Name: 'Joyesh', Age: 23, Salary: 6000, DOB: '23/04/1995' },
     { Name: 'Kamal', Age: 22, Salary: 7000, DOB: '27/11/1996' },
     { Name: 'Rohit', Age: 19, Salary: 800, DOB: '27/11/1993' },
     { Name: 'Mohit', Age: 20, Salary: 950, DOB: '27/11/1993' },
     { Name: 'Sonu', Age: 18, Salary: 1000, DOB: '27/11/1993' },
];
console.log("a. List of all employees= ",employee);
console.log("b.");
console.log("Employees whose salary > 5000 = ")
```

for(var i=0;i < employee.length;i++)</pre>

```
{
  if(employee[i].Salary > 5000)
  console.log(employee[i]);
}
console.log("c.");
  for(var i=0;i < employee.length;i++)</pre>
  {
      if(employee[i].Age < 20)
      console.log("Employees whose age is less then 20 = ",employee[i]);
      else if(employee[i].Age >= 20 && employee[i].Age < 25)
      console.log("Employees whose age is greater then or equal to 20
and less then 25 = ",employee[i]);
      else
      console.log("Employees whose age is greater then 25 =
",employee[i]);
  }
console.log("d.");
for(var i=0;i < employee.length;i++)</pre>
{
  if(employee[i].Salary > 1000 && employee[i].Age > 20)
  {
      var inc = employee[i].Salary * 5;
      console.log("Salary of ",employee[i].Name," after increment= ",inc);
```

```
}
```

```
6
           Elements
                      Console
                                Sources
                                          Network
                                                     Performance
                                                                   Memory
                                                                              Application
                                                                                           Security
                                                                                                     Audits
                                                                                Default levels ▼
Þ
    O top
                                Filter
x Expression
  not available
  a. List of all employees= ▼Array(5) []
                               ▶ 0: {Name: "Joyesh", Age: 23, Salary: 6000, DOB: "23/04/1995"}
                               ▶ 1: {Name: "Kamal", Age: 22, Salary: 7000, DOB: "27/11/1996"}
                               ▶ 2: {Name: "Rohit", Age: 19, Salary: 800, DOB: "27/11/1993"}
                               ▶ 3: {Name: "Mohit", Age: 20, Salary: 950, DOB: "27/11/1993"}
                               ▶ 4: {Name: "Sonu", Age: 18, Salary: 1000, DOB: "27/11/1993"}
                                length: 5
                               ▶ proto : Array(0)
```

```
b.
Employees whose salary > 5000 =

▶ {Name: "Joyesh", Age: 23, Salary: 6000, DOB: "23/04/1995"}

▶ {Name: "Kamal", Age: 22, Salary: 7000, DOB: "27/11/1996"}
.
```

```
c.
Employees whose age is greater then or equal to 20 and less then 25 = ▼Object []
```

```
Age: 23
DOB: "23/04/1995"
Name: "Joyesh"
Salary: 6000

— __proto_: Object

Employees whose age is greater then or equal to 20 and less then 25 = #Object  
Age: 22
DOB: "27/11/1996"
Name: "Kamal"
Salary: 7000

— __proto_: Object
```

```
Employees whose age is less then 20 = \(\pi\) Object \(\begin{array}{c} \text{Age: 19} \\ \text{DOB: "27/11/1993"} \\ \text{Name: "Rohit"} \\ \text{Salary: 800} \\ \text{proto_: Object} \end{array} \text{Employees whose age is greater then or equal to 20 and less then 25 = \(\pi\) Object \(\begin{array}{c} \text{Object} \\ \text{Age: 20} \\ \text{DOB: "27/11/1993"} \\ \text{Name: "Mohit"} \\ \text{Salary: 950} \\ \text{proto_: Object} \end{array} \text{Object} \end{array}
```

```
Employees whose age is less then 20 = \(\nstartion\) Object \(\overline{1}\)

Age: 18

DOB: "27/11/1993"

Name: "Sonu"

Salary: 1000

proto_: Object
```

```
d.
Salary of Joyesh after increment= 30000
Salary of Kamal after increment= 35000
>
```