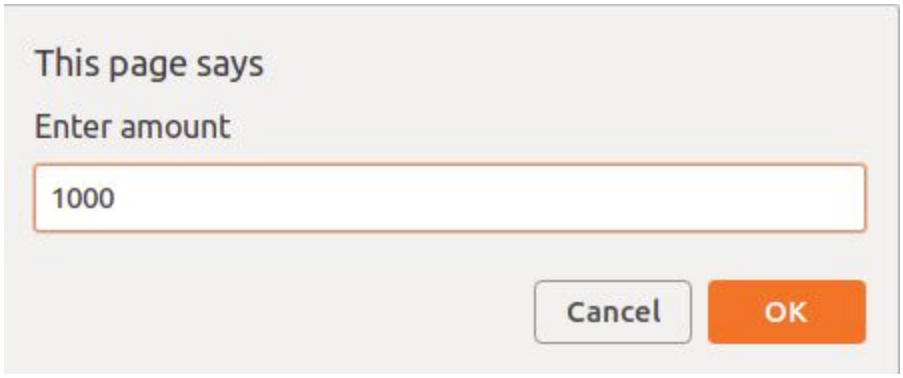
Assignment -5 (Introduction to Javascript)

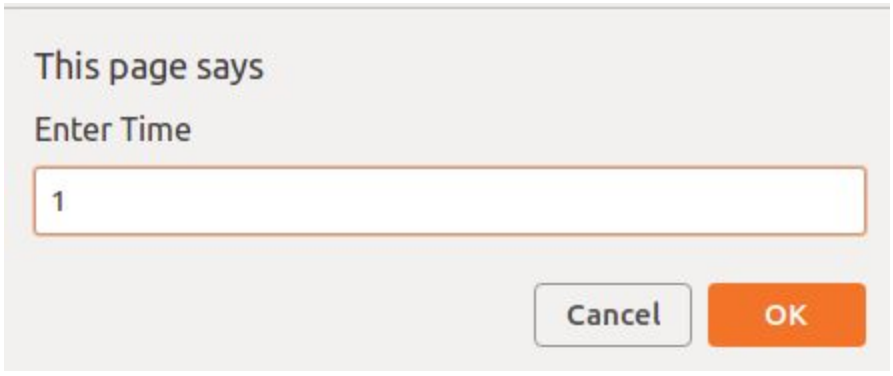
1. Prompt for amount, interest rate and no. of years and calculate simple interest.

Screenshot of Html and Output Recorded

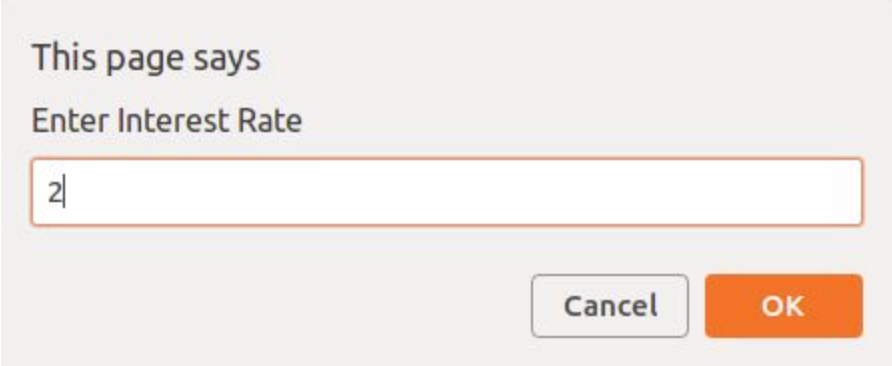
Amount entered by user in the prompt area



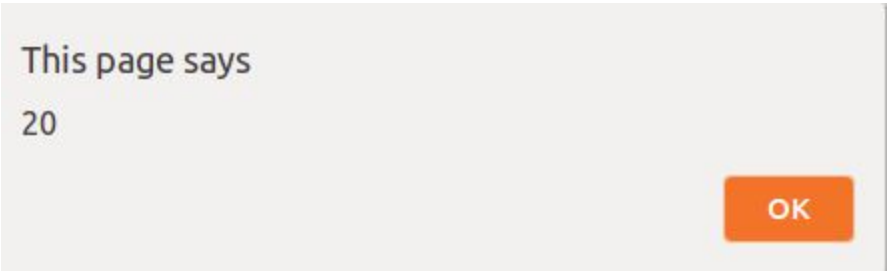
Time entered by user in the prompt area



Interest rate entered by user in the prompt area



Final result ie. Simple Interest by applying Formula



HTML AND JAVASCRIPT CODE

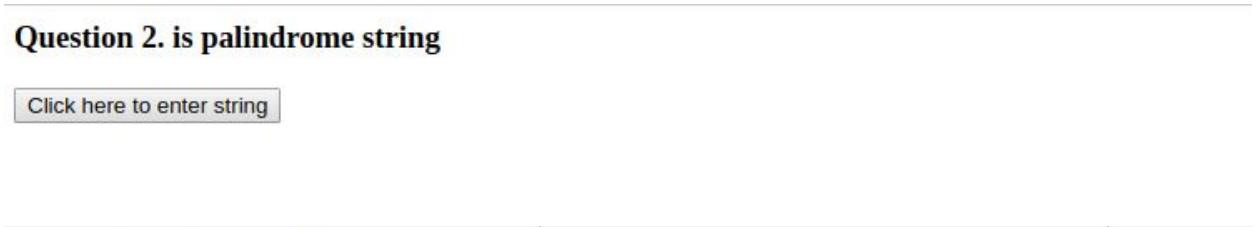
```
<html>
<head>
<title> Question 1 </title>
<script
src="https://ajax.googleapis.com/ajax/libs/jquery/3.3.1/jquery.min.js">
</script>
</head>
<body>
<h3> Question 1 Prompt for amount, interest rate and no. of years and
calculate simple interest.
</h3>
<script>
var amount = prompt("Enter amount");
```

```
var rate = prompt("Enter Interest Rate");
var time = prompt("Enter Time");
var si;
si = (amount*rate*time)/100;
alert(si);

</script>
</body>
</html>
```

2. Is palindrome string

Screenshot of Html and Output Recorded



HTML AND JAVASCRIPT CODE

```
<html>
<head>
<title>
Question 2 Palindrome String
</title>
</head>
<body>
<h3>
Question 2. is palindrome string
</h3>
<button onclick="myFunction()">Click here to enter string</button>
<script>
function myFunction() {
  var string= prompt("Enter Any String");

palindrome(string);
function palindrome(string)
{   if(string)
  {
      var str=string.toLowerCase();
      var len=string.length;
      var mid=Math.floor(len/2);
      for(var i=0; i<mid;i++)
      {
          if(str[i]!==str[len-1-i])

          return false;
      }
      return true;
  }
  else return false;

}

var result=palindrome(string);
```

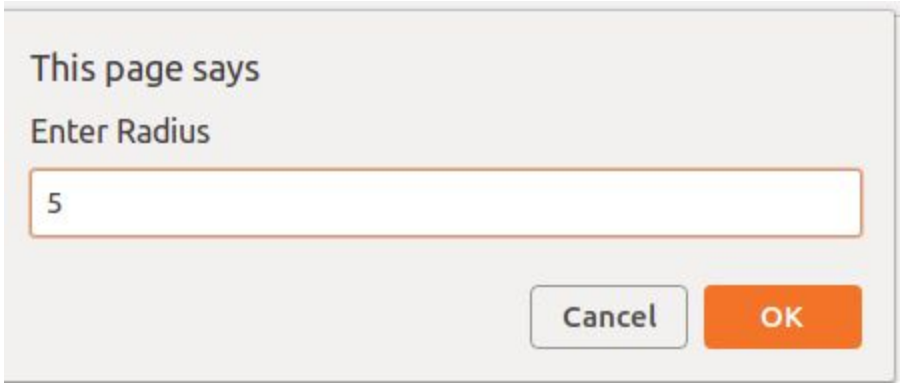
```
if(result)
  console.log("Yaay, it is a palindrome.");
else console.log("Sorry. Its not.");
}

</script>
</body>
</html>
```

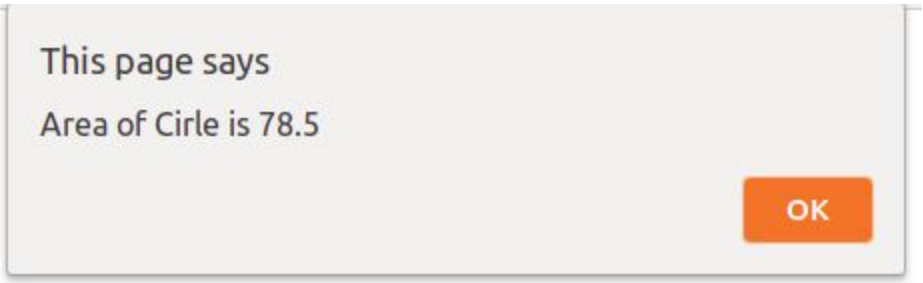
3. Area of circle

Screenshot of Html and Output Recorded

Radius is entered by user in the prompt area which is created using JavaScript



Final Area calculated using formula
3.14 *r*r



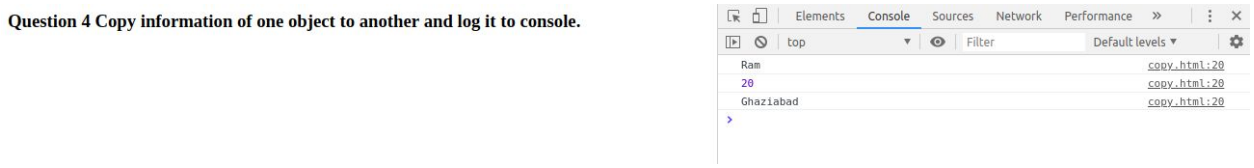
HTML AND JAVASCRIPT CODE

```
<html>
<head>
<title>
Question 3 Area of Circle
</title>
</head>
<body>
<h3>
Question 3 Area of Circle
</h3>
<button onclick="myFunction()">Click here to enter radius
</button>
<script>
function myFunction() {
 var a= prompt("Enter Radius");
 var area;
 area = 3.14*(a*a);
 alert("Area of Cirle is"+ " "+area);
}

</script>
</body>
</html>
```

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

Screenshot of Html and Output Recorded



HTML AND JAVASCRIPT CODE

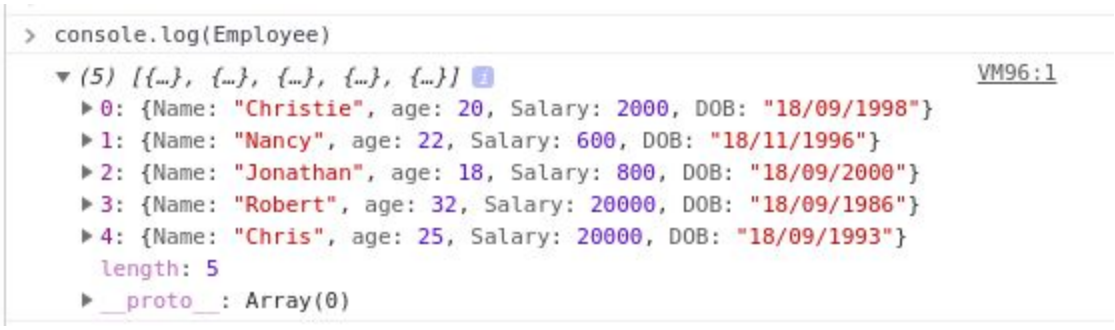
```
<html>
<head>
<title>
Question 4 Copy information of one object to another and log it to
console.
</title>
</head>
<body>
<h3>
Question 4 Copy information of one object to another and log it to
console.
</h3>
<script>
var obj1 = {
   Name : 'Ram',
   Age : 20,
   Location : 'Ghaziabad'
};
var obj2 = {};
for (i in obj1){
   obj2[i]=obj1[i];
   console.log(obj2[i]);
}
```

```
</script>
</body>
</html>
```

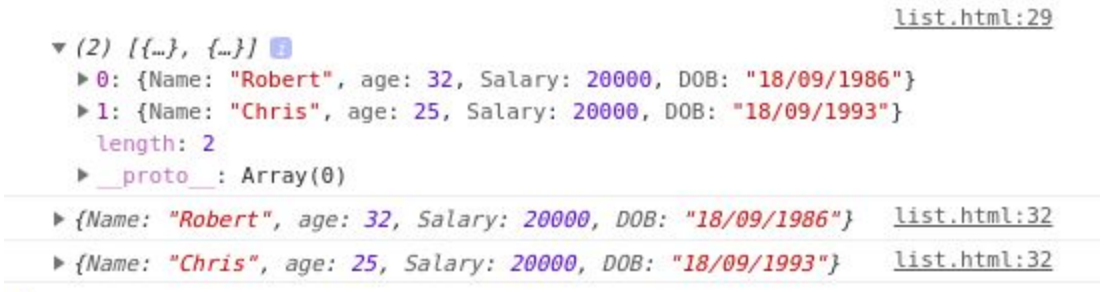
5. create a list of objects of Employee with info as follow :

- **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.**

a) Screenshot



b)



c)

```
list.html:64
▼ [{…}]
  ▶ 0: {Name: "Jonathan", age: 18, Salary: 800, DOB: "18/09/2000"}
    length: 1
  ▶ __proto__: Array(0)
list.html:65
▼ (3) [{…}, {…}, {…}]
  ▶ 0: {Name: "Christie", age: 20, Salary: 2000, DOB: "18/09/1998"}
  ▶ 1: {Name: "Nancy", age: 22, Salary: 600, DOB: "18/11/1996"}
  ▶ 2: {Name: "Chris", age: 25, Salary: 20000, DOB: "18/09/1993"}
    length: 3
  ▶ __proto__: Array(0)
list.html:66
▼ [{…}]
  ▶ 0: {Name: "Robert", age: 32, Salary: 20000, DOB: "18/09/1986"}
    length: 1
  ▶ __proto__: Array(0)
```

d)

```
list.html:82
▼ {Name: "Nancy", age: 22, Salary: 3000, DOB: "18/11/1996"}
    DOB: "18/11/1996"
    Name: "Nancy"
    Salary: 3000
    age: 22
  ▶ __proto__: Object
```

HTML AND JAVASCRIPT CODE

```
<html>
<head>
<title>
Question 5
</title>
</head>
<body>
<h3>
Question 5
create a list of objects of Employee with info as follow :
<ul>
  <li> Name, age, salary ,DOB </li>
  <li> Filter all employees with salary greater than 5000  <button
onclick="myFunction()">Click on this button to check result</button></li>
  <li> Group employee on the basis of their age <button
onclick="myFunction1()">Click on this button to check result</button></li>
  <li> Fetch employees with salary less than 1000 and age greater than 20.
Then give them an increment 5 times their salary.<button
onclick="myFunction2()">Click on this button to check result</button>
</li>

</ul>
</h3>
<script>
   var Employee = [
   {Name:'Christie',age:20, Salary:2000, DOB:"18/09/1998"},
   {Name:'Nancy',age:22, Salary:600, DOB:"18/11/1996"},
   {Name:'Jonathan',age:18, Salary:800, DOB:"18/09/2000"},
   {Name:'Robert',age:32, Salary:20000, DOB:"18/09/1986"},
   {Name:'Chris',age:25, Salary:20000, DOB:"18/09/1993"}
];
function myFunction(){
var result =Employee.filter(function(s) {return s.Salary>5000;});
```

```
console.log(result);
for (var a in result)
{
   console.log(result[a]);

}
}

function myFunction1(){
   var age1=new Array();
   var age2=new Array();
   var age3=new Array();
   var index1=0, index2=0, index3=0;
   for (var a in Employee){
       if(Employee[a].age<20)
       {
           age1[index1]=Employee[a];
           index1++;
       }
       if(Employee[a].age>18&&Employee[a].age<30)
       {
           age2[index2]=Employee[a];
           index2++;
       }
       if(Employee[a].age>30)
       {
           age3[index3]=Employee[a];
           index3++;
       }
   }
   console.log(age1);
   console.log(age2);
   console.log(age3);
}

function myFunction2(){
   for (a in Employee)
```

```
    {
        if(Employee[a].Salary<1000&&Employee[a].age>20)
        {
            Employee[a].Salary=(Employee[a].Salary)*5;
            console.log(Employee[a]);
        }
    }
}


</script>
</body>
</html>
```