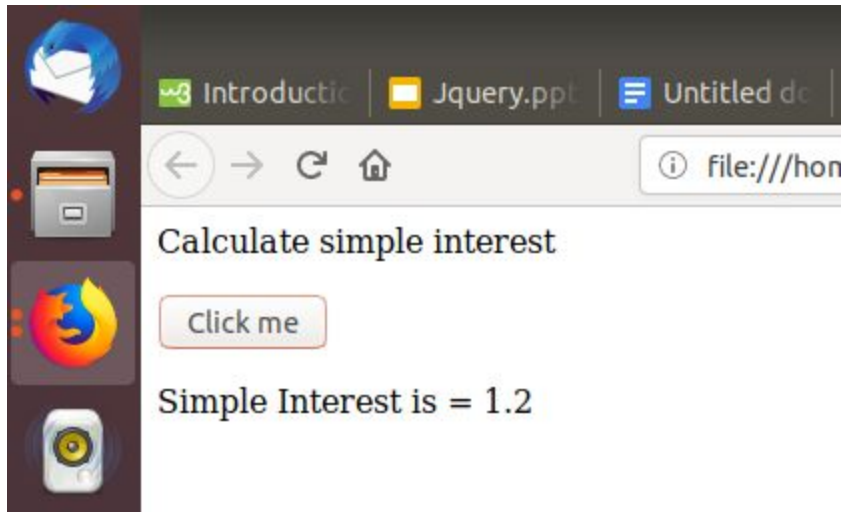# ASSESSMENT-5

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

Solution :


```
<html>
<head>
<title>Prompt for Simple interest</title>
</head>
<body>
   <p>Calculate simple interest</p>
   <button onclick="calculate()">Click me</button>
</body>
<script type="text/javascript">
function calculate()
        {
        var p = prompt("p");
        var n = prompt("n");
        var r =prompt("r");
        var result = (p*n*r)/100;
```

```
            document.getElementById("result").innerHTML = "Simple Interest is = " + result;
        }
        </script>

  <body>
      <p id="result"></p>
  </body>
</script>
</body>
</html>
```

Q.2) is palindrome string ?

Solution :

```
<!DOCTYPE html>
<html>
<head>
    <meta charset="utf-8" >
    <title>is string palindrome ?</title>
    <script type="text/javascript">
var p,i=0,j=0,k=0;
function Palindrome() {
var result=document.getElementById("len");
j=p.length-1;
k=0;
for(i=0;i<p.length/2;i++)
{
if(p.charAt(i)==p.charAt(j))
{
j--;
continue;
}
else
{
k=1;
```
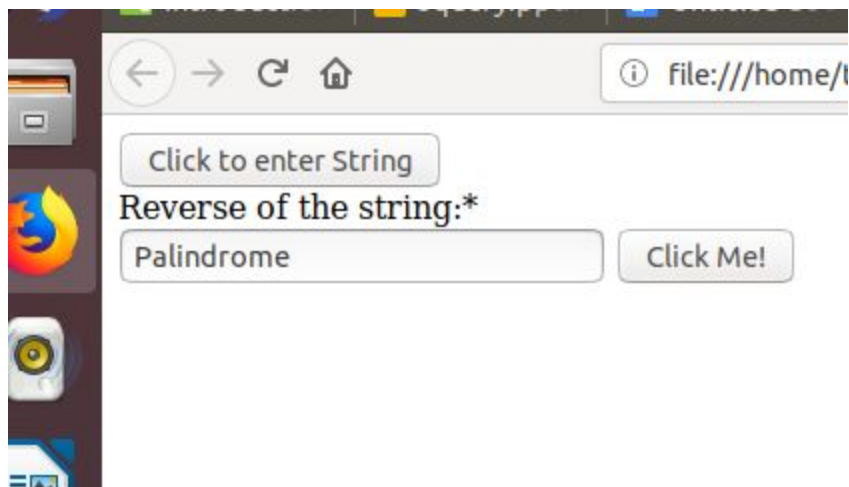
```
break;
}
}
if(k==1)
result.value="Not Palindrome";
else
result.value="Palindrome";
}
function get_t()
{
p=prompt("Enter String");
}
</script>
</head>
<body onload="form1.reset();">
<button type="button" onclick='get_t();'>Click to enter String</button>
<br>
Reverse of the string:*<br>
<input type="text" id="len" >
<button type="button" onclick='Palindrome();'>Click Me!</button>
</body>
</html>
```

Q.3) Area of circle using javascript.

Solution :

```html
<!DOCTYPE html>
<html>
<head>
<meta charset="utf-8">
<style>
 h2 { color: red ; font-family: courier; }
 input { width: 6em; }
 #entry-result { width: 500px; text-align: center; margin: 0 auto; border-collapse: collapse }
</style>
<title>Area of Circle</title>
</head>
   <body>
         <div id="entry-result">
 <h2> Area of the Circle </h2>
 Radius: <input type="text" value="0" id="radius">
 <button onClick ="circleArea()">Find Area of Circle</button>
 Results: <input type="text" value="0" id="results">
</div>

<script type="text/javascript">
function circleArea(){
  var radius = Number(document.getElementById('radius').value);
  if(radius=)
  var areaCircle = Math.PI * radius * radius;
  document.getElementById('results').value = areaCircle.toFixed(3);
}
</script>

</body>
</html>
```

Area of the Circle

Radius: 7   Find Area of Circle   Results:
153.938

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

Solution :

```html
<!DOCTYPE html>

<html>
<head>
<title></title>
</head>
<body>
<script type="text/javascript">
    var source = {name: "amrendra", lastname: "singh", age: "21"};
    var destination = copyFrom(source);
    console.log(source);
    console.log(destination);
    function copyFrom(source){
        var d = {};
        for (prop in source){
            d[prop] = source[prop];
        }
        return d;
    }

</script>

</body>
</html>
```
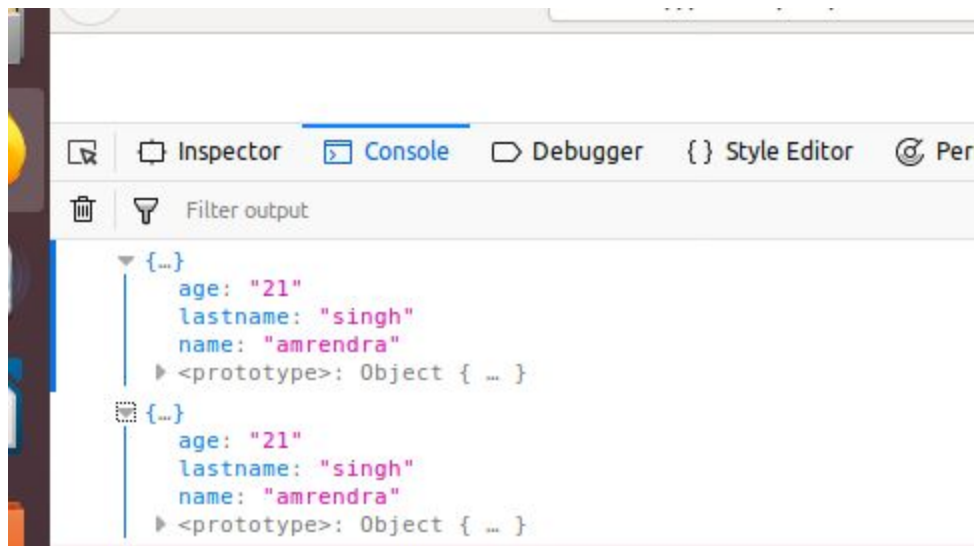
Q.5)

1. **create a list of objects of Employee with info as follow : Name, age, salary ,DOB.**
2. **filter all employees with salary greater than 5000**
3. **group employee on the basis of their age**
4. **fetch employees with salary less than 1000 and age greater than 20. Then give them an increment 5 times their salary.**

Solution :

```
<!DOCTYPE html>
<html>
<head>
    <title>Employee detail</title>
</head>
<body>
<script type="text/javascript">
    var Employee = [{Name: "Amrendra", Age:"21", Salary: "100000", DOB: "16-11-1996"},
                    {Name: "Ashwani", Age:"21", Salary: "10000", DOB: "20-07-1996"},
                    {Name: "nishant", Age:"21", Salary: "11000", DOB: "18-03-1996"},
                    {Name: "Akshay", Age:"22", Salary: "400", DOB: "18-01-1996"},
                   {Name: "Gaurav", Age:"20", Salary: "170", DOB: "03-10-1997"}
                              ];
   function checkSalary(salary)
{
  return salary < 1000;
}

   function checkAge(Age) {
   return Age > 20;
}  for ( var i=0;i<Employee.length;i++)
{
    if(checkSalary(Employee[i]["Salary"]) && checkAge(Employee[i]["Age"])){
        console.log(Employee[i]["Name"]);
        Employee[i]["Salary"] = 5 * Employee[i]["Salary"];
        console.log(Employee[i]["Salary"]);
```

```
        }
    }

    console.log(Employee);

</script>

</body>
</html>
```