**Introduction to JavaScript - Exercise**

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

<html>

<head>

<title></title>

<script type="text/JavaScript">

function sim()

{

var p,r,t,si;

p=parseInt(prompt("Enter the Principal"));

r=parseInt(prompt("Enter the rate"));

t=parseInt(prompt("Enter the time"));

si=p\*r\*t/100;

alert("Simple Interest= "+si);

}

</script>

</head>

<body>

<input type="button" value="CALCULATE SI" onClick="sim ()">

</body>

</html>

**2) Is palindrome string?**

<html>

<head>

<title></title>

<script type="text/JavaScript">

function pal()

{

var i,n,rev="";

n=prompt("Enter any string");

for(i=n.length-1;i>=0;i--)

rev=rev+n.charAt(i);

if(n==rev)

alert("Palindrome String");

else

alert("Not Palindrome String");

}

</script>

</head>

<body>

<input type="button" value="FIND PALINDROME" onClick="pal()">

</body>

</html>

**3) Area of circle**

<html>

<head>

<title></title>

<script type="text/JavaScript">

function areac()

{

var r,area;

n=parseInt(prompt("Enter any radius of circle:"));

area=Math.PI\*n\*n;

alert("Area of Circle= "+area);

}

</script>

</head>

<body>

<input type="button" value="FIND AREA" onClick="areac()">

</body>

</html>

**Exercises Using Form**

**4) On click of a button ask for the name of user and display it inside the text box.**

<html>

<head>

<title></title>

<script type="text/JavaScript">

function name()

{

var nm;

nm=prompt("Enter your name");

document.forms["first"]["t1"].value=nm;

}

</script>

</head>

<body>

<form name="first">

<input type="button" value="ENTER YOUR NAME" onClick="name()"></br><br/>

<input type="text" id="t1" onClick="name()">

</form>

</body>

</html>

**5) Copy text of one text field to another on change of text in first text box.**

<html>

<head>

<title></title>

<script type="text/JavaScript">

function name()

{

var txt;

txt=document.forms["form1"]["t1"].value;

document.forms["second"]["t2"].value=txt;

}

</script>

</head>

<body>

<form name="form1">

<input type="text" id="t1" onChange="name()">

<input type="text" id="t2" >

</form>

</body>

</html>

**6) Allow submission of form only if the user has entered his name (not empty) and age is greater than or equals to 18**

<html>

<head>

<title></title>

<script type="text/JavaScript">

function validate()

{

var nm,age;

nm=document.forms["form2"]["t1"].value;

age=parseInt(document.forms["third"]["t2"].value);

if(nm=="")

{

alert("Please Enter your name");

document.third.t1.value="";

document.third.t1.focus();

return false;

}

if(age<18)

{

alert("Your age is less than 18!");

document.third.t2.value="";

document.third.t2.focus();

return false;

}

return true;

}

</script>

</head>

<body>

<form name=" form2" action="new.html" method="post" onSubmit="return validate()">

<table><tr><td>NAME:</td>

<td>input type="text" id="t1"></td>

</tr>

<tr><td>AGE:</td>

<td><input type="text" id="t2"></td>

</tr>

<tr><td colspan="2"><input type="submit" value="GO">

</form>

</body>

</html>

**7) Change color of the div when mouse is moved over it and restore the color when mouse moves out of it.**

<html>

<head>

<title></title>

</head>

<body>

<form name="myform">

<div id="i1" style="background-color:blue;position:relative;left:10;width:300;height:300" onMouseOver="this.style.background='RED';" onMouseOut="this.style.background='BLUE';">

</div>

</form>

</body>

</html>

**8) Externalize java Script file in previous exercises.**

Script.js

function validate()

{

var nm,age;

nm=document.forms["form2"]["t1"].value;

age=parseInt(document.forms["third"]["t2"].value);

if(nm=="")

{

alert("Please Enter your name");

document.third.t1.value="";

document.third.t1.focus();

return false;

}

if(age<18)

{

alert("Your age is less than 18!");

document.third.t2.value="";

document.third.t2.focus();

return false;

}

return true;

}

**Lab38.html**

<html>

<head>

<title></title>

<script src=”script.js”></script>

</head>

<body>

<form name=" form2" action="new.html" method="post" onSubmit="return validate()">

<table><tr><td>NAME:</td>

<td>input type="text" id="t1"></td>

</tr>

<tr><td>AGE:</td>

<td><input type="text" id="t2"></td>

</tr>

<tr><td colspan="2"><input type="submit" value="GO">

</form>

</body>

</html>