**1.Write a java script program to find factorial of a given number**

**Source code:**

<html>  
<head>  
</head>  
<body>  
<script>  
  
var i, num, f;  
f = 1;  
num = parseInt(prompt("enter n value"));  
for(i =num; num>0; i--)    
{  
f = f \* i;  
}  
document.writeln(f);  
  
  
</script>  
  
</body>  
</html>

**2.Write a java script program that finds the smallest of several non-negative integers assume that the first value reads specify the number of values to be input from the user .**

**Source code:**

<html>

<head>

<title> Smallest Integer </title>

</head>

<body>

<script>

var n;

var i;

var s;

n = parseInt(prompt("enter n"));

var a= new Array(n);

for(i=0;i<n;i++)

{

a[i]= parseInt(prompt("enter value"));

}

s=a[0];

for(i=0;i<n;i++)

{

if(parseInt(a[i])<s)

s= a[i];

}

document.writeln("smallest number"+s);

</script>

</body>

</html>

**3.Write a java script program to read an integer value using prompt and display its square .**

**Source code:**

<html>

<head>

<title>math</title>

</head>

<body>

<script>

var n= parseInt(prompt("enter n"));

var r=n\*n;

document.writeln("Squre of " + n+ " is: " + r);

}

</script>

</body>

</html>

**4.Write a java script program to implement various mathematical operations and input should be prompted for and conformation should be asked before proceeding to next operation .**

**Source code:**

<html>

<head>

<title>math</title>

</head>

<body>

<script>

var ch=parseInt(prompt( "Enter your choice 1.Addition 2.Subtraction 3.Multiplication 4.Division "));

switch(ch)

{

case 1:var v1=parseInt(prompt( "Enter the first value "));

var v2=parseInt(prompt( "Enter the second value "));

var v3=v1+v2;

document.writeln( "<br> "+ "Addition: "+v3);

break;

case 2:var v4=parseInt(prompt( "Enter the first value "));

var v5=parseInt(prompt( "Enter the second value "));

var v6=v4-v5;

document.writeln( "<br> "+ "Subtraction: "+v6);

break;

case 3:var v7=parseInt(prompt( "Enter the first value "));

var v8=parseInt(prompt( "Enter the second value "));

var v9=v7\*v8;

document.writeln( "<br> "+ "Multiplication: "+v9);

break;

case 4:var v10=parseInt(prompt( "Enter the first value "));

var v11=parseInt(prompt( "Enter the second value "));

var v12=v10/v11;

document.writeln( "<br> "+ "Divison: "+v12);

break;

case 5:var v13=parseInt(prompt( "Enter the first value "));

var v14=parseInt(prompt( "Enter the second value "));

var v15=v13%v14;

document.writeln( "<br> "+ "Modulus: "+v15);

break;

default: document.writeln( "Enter choice correctly ");

}

}

</script>

</body>

</html>

**5.Explain mousemove,mouseover and mouseout objects in**

**java script .**

**source code:**

<!DOCTYPE html>

<html>

<body>

<div onmousemove=”mMove(this)” onmouseover="mOver(this)" onmouseout="mOut(this)"

style="background-color:#D94A38;width:120px;height:20px;padding:40px;">

Mouse Over Me</div>

<script>

Function mMove(obj){

Obj.innerHTML=”keerthi”

}

function mOver(obj) {

obj.innerHTML = "Thank You"

}

function mOut(obj) {

obj.innerHTML = "Mouse Over Me"

}

</script>

</body>

</html>

**6) Prompt the user for a number in the range 0…100 if the**

**number is out of range display an error message and**

**prompt again until a valid number is entered . Assume**

**the user enters a number each time**

**source code:**

<html>

<head><title></title></head>

<body>

<script>

var n=parseInt(prompt("enter number"));

var c=1;

while(c!=0)

{

if(n>0 && n<100){

document.writeln("valid");

c=0;

}

else{

var n=parseInt(prompt("enter number"));

continue;

}

}

</script>

</body>

</html>

7.**Write a program to display all anchor elements in a given using DOM collections**

**Source code:**

**8.Write a javascript program to print the number of days in a month based on the input month and year**

<!DOCTYPE html>

<html>

<head><title></title></head>

<body>

<script>

var m=prompt("enter month");

var y=prompt("enter year");

var tnd=new Date(y,m,0).getDate();

document.writeln(tnd);

</script>

</body>

</html>

**9) Write a java script function that accepts two arguments ,a string and a letter and the function will count the number of occurrences of the specified letter within the string .**

**Source code:**

<!DOCTYPE html>

<html>

<head><title></title></head>

<body>

<p id="demo"></p>

<script>

var s=prompt("enter string");

var l=prompt("enter letter");

var c=0;

function count(s,l){

for(let i=0;i<s.length;i++)

{if(s[i]==l){

c++;

}

}

return c;

}

document.getElementById("demo").innerHTML="count is"+count(s,l);

</script>

</body>

</html>

**10) Write a java script program to sort given set of**

**numbers using bubble sort technique .**

**source code:**

<html>

<head>

<title>

</title>

</head>

<body>

<script>

var num=parseInt(prompt("enter number of elements "));

var a=[];

var i,j,temp;

for(i=0;i<num;i++)

{

a[i]=parseInt(prompt("enter element"));

}

for(i=0;i<num;i++)

{

for(j=i+1;j<num;j++)

{

if(a[i]>a[j])

{

temp=a[i];

a[i]=a[j];

a[j]=temp;

}

}

}

for(i=0;i<num;i++)

{

document.writeln(a[i]);

}

</script>

</body>

</html>

**11) Discuss keyboard events in java script with help of**

**examples .**

**source code:**

<!DOCTYPE html>

<html>

<body>

enter for keydown:

<input type="text" onkeydown="kDown()"><br><br>

enter for keypress:

<input type="text" onkeypress="kPress()"><br><br>

enter for keyup:

<input type="text" id="fname" onkeyup="myFunction()">

<script>

function kDown() {

alert("You pressed a key inside the input field");

}

function kPress() {

alert("You pressed a key inside the input field");

}

function myFunction() {

var x = document.getElementById("fname");

x.value = x.value.toUpperCase();

}

</script>

</body>

</html>

**12) Write a java script program that validates the user-**

**name, password, confirm-password and mobile number**

**fields in a :**

**form and the conditions are**

**a ) User name must be at least 6 character**

**b) Password and confirm-password must match**

**c) Mobile number must be exactly 10 numeric digits**

**d) Display appropriate messages in alert box.**

**Source code:**

<!DOCTYPE html>

<html>

<head>

<script>

function validation()

{

var x=document.getElementById("user").value;

if(x.length<6)

{

alert("enter valid name must have 6 letters");

}

var y=document.getElementById("password").value;

var z=document.getElementById("confirmpassword").value;

if(y!=z)

{

alert("password must equal");

}

var m=document.getElementById("mblno").value;

if(m.length!=10){

alert("must have 10 digits");

}

}

</script>

</head>

<body>

<center>

<h1>FORM</h1>

<form name="forms" onsubmit="validation()" style="font-size:20px;">

<label for="user">username:</label>

<input type="text" id="user" name="username"><br><br>

<label for="password">password:</lable>

<input type="password" id="password"><br><br>

<label for="confirmpassword">confirm</label>

<input type="password" id="confirmpassword"><br><br>

<label for="mblno">mbl num</label>

<input type="tel" id="mblno"><br><br>

<input type="submit" value="submit"><br>

</form>

</body>

</center>

</html>