**Assignment 3**

**Name: Upendra Sunil Kadre**

**Div.: C Roll No: 69**

**GR NO: 1710505**

**Q. Write a JavaScript program to perform a binary search.**

***Code: binarysearch.js***

<html>

<head>

<title>Binary Search</title>

<script type="text/javascript">

function binary()

{

var n=parseInt(prompt("enter the size of an array: "));

var a=new Array(n);

var p=0;

for(var i=0;i<a.length;i++)

{

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

}

for(var i=0;i<a.length;i++)

{

for(var j=i+1;j<a.length;j++)

{

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

{

var t=a[i];

a[i]=a[j];

a[j]=t;

}

}

}

var k=parseInt(prompt("enter the key element "));

var i=0;

var u=parseInt(a.length-1);

while(i<=u)

{

var m=parseInt((i+u)/2);

if(k==a[m])

{

p=1;

break;

}

else if(k>a[m])

{

i=m+1;

}

else if(k<a[m])

{

u=m-1;

}

}

if(p==1)

document.writeln("element found at :"+m);

else

document.writeln("element not found");

}

</script>

</head>

<body onLoad="binary();"></body>

</html>

**OUTPUT:**

