

Course Code: CSE3150

Course Title: Front End Full Stack Development

Lab sheet 1 Javascript - Module 2

Problem Statement:

Ravi is trying to write a program in JavaScript to calculate the Fibonacci series of a given number and the square of a given number series as the assignment is given by class teacher, help Ravi to develop and demonstrate a HTML file that includes JavaScript script for the following problems:

a) Input: A number n obtained using prompt

Output: The first n Fibonacci numbers

b) Input: A number n obtained using prompt

Output: A table of numbers from 1 to n and their squares using **alert**

a)

```
<html>
```

```
<head>
```

```
<title>Fibonacci Series</title>
```

```
</head>
```

```
<body>
```

```
<script type="text/javascript">
```

```
var fib1=0,fib2=1,fib=0;
```

```
var num=prompt("Enter a number : \n", "");
```

```
if(num != null && num > 0 )
```

```
{
```

```
document.write("<h1>The first "+num+" numbers in the fibonacci series </h1>");
```

```
if(num==1)
```

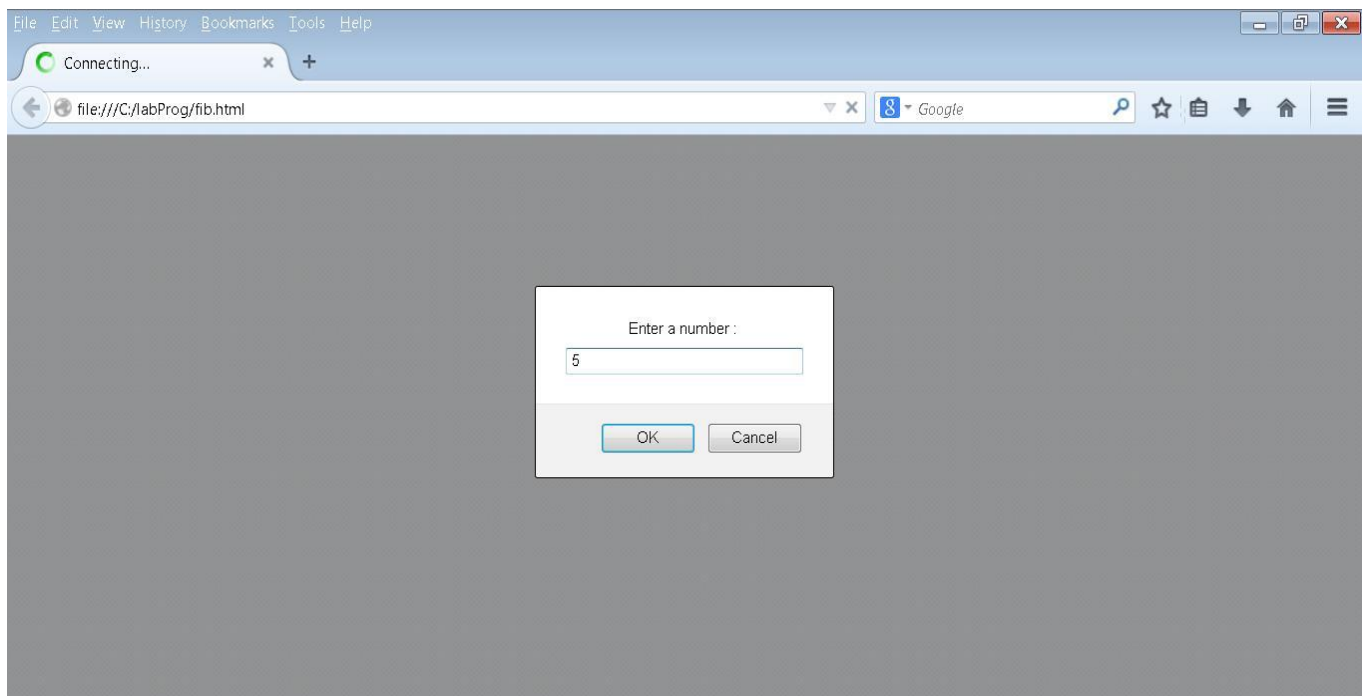
```
document.write("<h2> "+ fib1 + "</h2>");
```

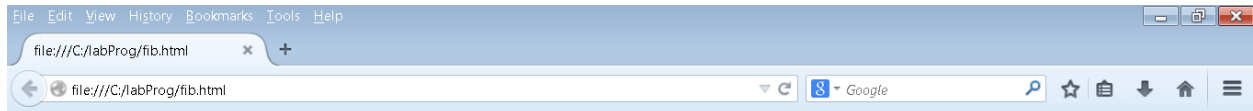
```
else
```

```
{
```

```
document.write("<h2>" + fib1 + "</h2>");
document.write("<h2>" + fib2 + "</h2>");
}
for(i=3;i<=num; i++)
{
fib= fib1 + fib2;
document.write("<h2> " + fib + "</h2>");
fib1=fib2;
fib2=fib;
}
}
else
alert("Invalid Input");

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





The first 5 numbers in the fibonacci series

0

1

1

2

3

b) <!DOCTYPE html>

<html>

<head>

<title>Number and its squares</title>

</head>

<body>

<script type="text/javascript">

var num = prompt("Enter a number : \n", "");

var msgstr;

if(num > 0 && num !=null){

msgstr="Number and its Squares are \n";

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

{

msgstr = msgstr + i + " ^ 2 = " + i*i + "\n";

}

alert(msgstr);

}

else

alert("Invalid Input");

</script>

</body>

</html>

