

Experiment No.

Student Name : _____ PRN _____

Course Teacher: Mrs. Sharayu Bonde and Mrs Priyanka Gadade, Govt. College of
Engg, Jalgaon**Aim:** Develop and demonstrate an XHTML file that includes Javascript 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

Objective :-

To get acquainted with javascript and how to embed javascript in html code.

Procedure :-**Question 2a :-**

1. Declare the script tag as text/javascript in the beginning of the <body> of Html program
2. Get the number of Fibonacci elements to be generated from the user using prompt()
3. Validate input given and alert the user for invalid input using alert()
4. Generate the Fibonacci numbers using the standard algorithm and print it to std out using document.write()

```

<!-------XHTML CODE----->
<?xml version="1.0" encoding="utf-8"?>
<head>
  <title> Fibonacci Numbers </title>
</head>
<body>
  <h1>Calculating the fibonacci numbers</h1>
  <script type="text/javascript">
    var n,a=0,b=1,i,c
    n=prompt("Enter a number ", "")
    if(n<=0) alert("Invalid number")
    else
    {
      if(n==1) document.write(a)
      else document.write(a+"<br />" +b)
      for(i=2;i<n;i++)
      {
        c=a+b
        a=b
        b=c
        document.write("<br />" +c)
      }
    }
  </script>
</body>

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    }
  }
</script>
</body>
</html>
<!-- End of File -->

```

Question 2b :-

1. Declare the script tag as text/javascript in the beginning of the <body> of html program
2. Get the number till which the squares have to be generated using prompt()
3. Validate input given and alert the user for invalid input using alert()
4. For all the numbers from 1 to n, generate their squares and print them.

```

<!-------XHTML CODE----->
<?xml version="1.0" encoding="utf-8"?>
<html>
<head> <title>Squares of numbers</title> </head>
<body>
  <h1>
    Printing numbers & calculating their squares
  </h1>
  <script type="text/javascript">
    var n,i;
    n=prompt("Enter a number", "");
    if(n>0)
    {
      c="Number | Square"
      for(i=1;i<=n;i++) c=(c+"\n"+i+" ----> "+i*i);
      alert(c)
    }
    else alert("Enter a number greater than 1.")
  </script>
</body>
</html>
<!--End of File -->

```

Name and Sign of Course Teacher