PRACTICAL 4

4.1

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript">
        function msg()
        {
            alert("Hello JavaTpoint");
        }
        </script>
</head>
<body>
    <p> Welcome to Javascript</p>
    <form>
    <input type="button" onclick="msg()" value="click">
    </form>
</body>
</html>
```


4.2

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript" src="msg.js"></script>
</head>
```
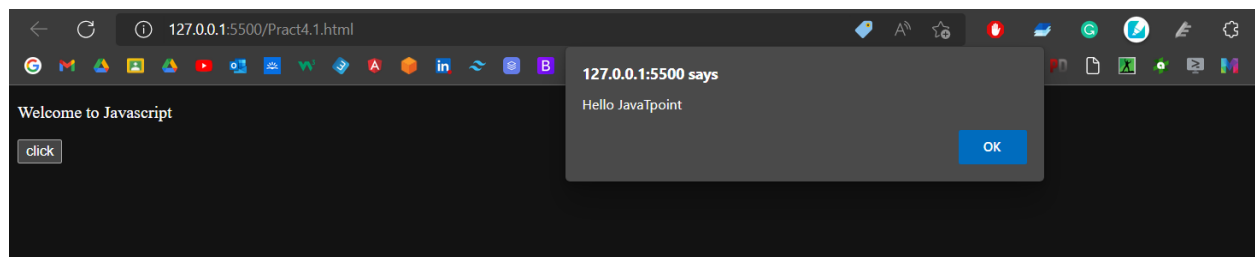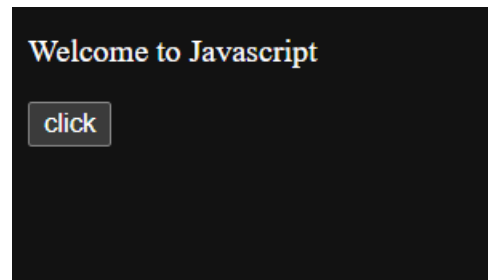
```
<body>
    <p> Welcome to Javascript</p>
    <form>
        <input type="button" onclick="msg()" value="click">
    </form>
</body>
</html>
```

Welcome to Javascript

click

4.3

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript" >
        function addStrings()
        {
            text1="What a";
            text2="beautiful weather......!";
            text3=text1+text2;
            document.write("your added strings are: "+text3);
        }
        </script>
</head>
<body>
    <form>
        <input type="button" onclick="addStrings()" value="click on me">
    </form>
</body>
</html>
```

4.4

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript" >
        a=10;
        b=5;
        document.write("<br>Addition is ",a+b);
        document.write("<br>Subtraction is ",a-b);
        document.write("<br>multiplication is ",a*b);
        document.write("<br>Division is ",a/b);
        document.write("<br>Modulo is ",a%b);
        </script>
</body>
</html>
```


4.5

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
```

```
</head>
<body>
    <script type="text/javascript" >
        a=parseInt(prompt("Enter value of a: "));
        b=parseInt(prompt("Enter value of b: "));
        document.write("<br>Addition is ",a+b);
        document.write("<br>Subtraction is ",a-b);
        document.write("<br>multiplication is ",a*b);
        document.write("<br>Division is ",a/b);
        document.write("<br>Modulo is ",a%b);
        </script>
</body>
</html>
```

127.0.0.1:5500 says

Enter value of a:

```
10
```

OK   Cancel

127.0.0.1:5500 says

Enter value of b:

```
5
```

OK   Cancel

Addition is 15
Subtraction is 5
multiplication is 50
Division is 2
Modulo is 0

4.6

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript" >
        a=parseInt(prompt("Enter value of a: "));
        b=parseInt(prompt("Enter value of b: "));
```

```
        document.write("<br>",a>b);
        document.write("<br>",a<b);
        document.write("<br>",a==b);
        </script>
</body>
</html>
```

127.0.0.1:5500 says

Enter value of a:

```
10
```

OK   Cancel

127.0.0.1:5500 says

Enter value of b:

```
5
```

OK   Cancel

```
true
false
false
```

4.7

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript" >
        marks=parseInt(prompt("Enter your marks: "));
        document.write("Your marks is ",marks);
        if(marks>=75)
        {
            document.write("<br>Congratulations...!, Distinction");
        }
        else
        {
            document.write("First class");
        }
        </script>
```

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


127.0.0.1:5500 says

Enter your marks:

80

OK   Cancel

Your marks is 80

Congratulations...!, Distinction

4.8

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript" >
        marks=parseInt(prompt("Enter your marks: "));
        document.write("Your marks is ",marks);
        if(marks>=75)
        {
            document.write("<br>Distinction");
        }
        else if(marks<75 && marks>=60)
        {
            document.write("<br>First class");
        }
        else if(marks<60 && marks>=50)
        {
            document.write("<br>Second class");
        }
        else if(marks<50 && marks>=40)
        {
            document.write("<br>Third class");
        }
        else if(marks<40 && marks>=35)
        {
```
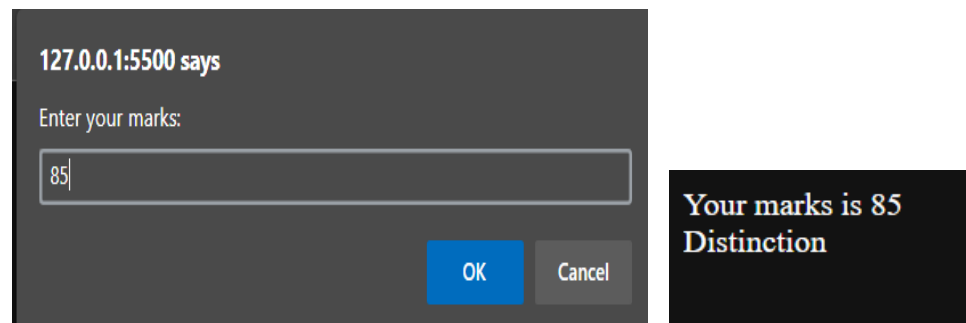
```
        document.write("<br>Just pass ");
    }
    else
    {
        document.write("<br>Failed");
    }
    </script>
</body>
</html>
```


4.9

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript" >
        csmarks=parseInt(prompt("Enter your marks in cs : "));
        if(csmarks>=75)
        {
            mathsmark=parseInt(prompt("Enter your marks in maths : "));
            if(mathsmark>60)
            {
                document.write("<br>You are eligible to take admission");
            }
            else
            {
                document.write("<br> Oops....!You must have scored more than 60 in
maths");
            }
        }
```

```
        else
        {
            document.write("<br>You are not eligible to take admission");
        }
        </script>
</body>
</html>
```


127.0.0.1:5500 says

Enter your marks in cs :

```
80
```

OK   Cancel

127.0.0.1:5500 says

Enter your marks in maths :

```
70
```

OK   Cancel

You are eligible to take admission

4.10

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript">
        daynum=prompt("Enter number of day: ");
        switch(daynum)
        {
            case"1":
                document.write("its Monday,GT practical");
                break;
            case"2":
                document.write("its Tuesday,OS practical");
                break;
            case"3":
                document.write("its Wednesday,WP practical");
```

```
                break;
            case"4":
                document.write("its Thursday,JAVA practical");
                break;
            case"5":
                document.write("its Friday,DBMS practical");
                break;
            case"6":
                document.write("its Saturday,LA practical");
                break;
            default:
                document.write("Please enter valid day number");
        }
    </script>
</body>
</html>
```


4.11

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript">
        function Sum(x,y)
        {
            return x+y;
        }
    </script>
</head>
<body>
    <script type="text/javascript">
        document.write(Sum(10,2));
```

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

```
12
```

4.12

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript">
        function evalexp()
        {
            exp=prompt("Enter any expression: ");
            document.write(eval(exp));
        }
    </script>
</head>
<body onload="evalexp()">
</body>
</html>
```

```
127.0.0.1:5500 says

Enter any expression:

2+3

                              OK      Cancel
```

```
5
```

4.13

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
```

```html
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript">
        prompt("Do you like JAVASCRIPT....?")
        confirm("Are you sure with your answer...?")
        alert("Thanks for your response...!")
    </script>
</body>
</html>
```
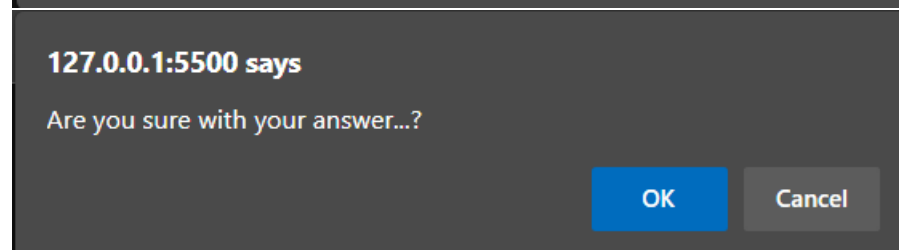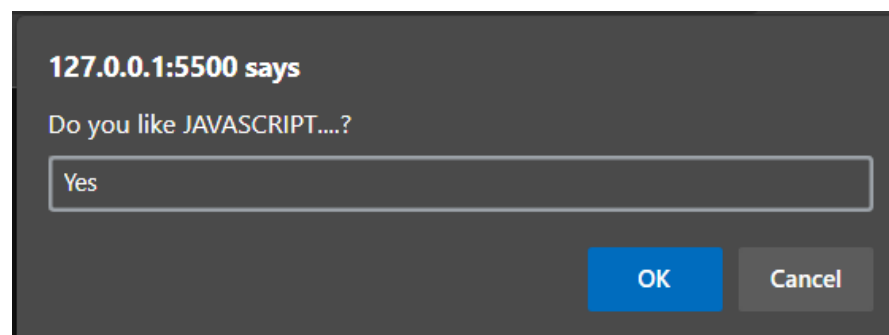
127.0.0.1:5500 says

Do you like JAVASCRIPT....?

Yes

OK   Cancel

127.0.0.1:5500 says

Are you sure with your answer...?

OK   Cancel

127.0.0.1:5500 says

Thanks for your response...!

OK

4.14

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
```

```html
    <title>Document</title>
</head>
<body>
    <script type="text/javascript">
        var i=prompt("Enter any number: ");
        if((i%2)==0)
        {
            document.write(i+" is even<br>");
        }
        else
        {
            document.write(i+" is odd<br>");
        }
    </script>
</body>
</html>
```
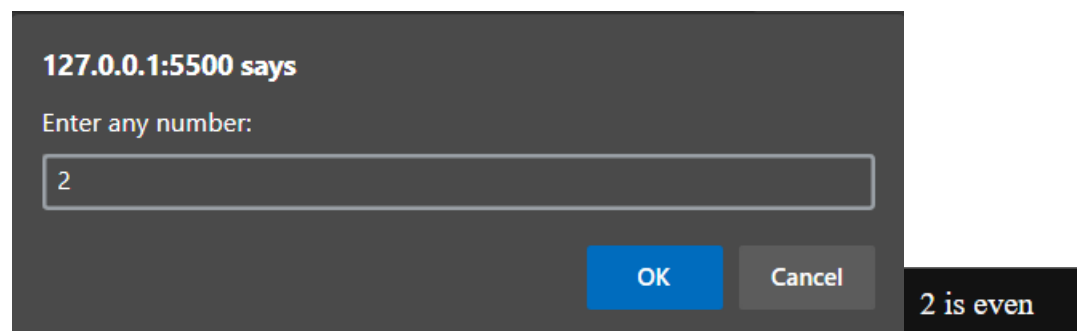
127.0.0.1:5500 says

Enter any number:

2

OK   Cancel

2 is even

4.15

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript">
        document.write("<h2> Multiplication Table from(1-10)</h2><br>");
        document.write("<table border=1 width=50%>");
        for(i=1;i<=10;i++)
        {
            document.write("<tr>");
            document.write("<td>"+i+"</td>");
```

```
        for(j=2;j<=10;j++)
        {
            document.write("<td>"+i*j+"</td>");
        }
        document.write("</tr>");
    }
    document.write("</table>");
    </script>
</body>
</html>
```

Multiplication Table from(1-10)

1	2	3	4	5	6	7	8	9	10
2	4	6	8	10	12	14	16	18	20
3	6	9	12	15	18	21	24	27	30
4	8	12	16	20	24	28	32	36	40
5	10	15	20	25	30	35	40	45	50
6	12	18	24	30	36	42	48	54	60
7	14	21	28	35	42	49	56	63	70
8	16	24	32	40	48	56	64	72	80
9	18	27	36	45	54	63	72	81	90
10	20	30	40	50	60	70	80	90	100

4.16

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript">
        var i=0;
        while(i<=10)
        {
        document.write(i+"<br>");
        i++;
        }
```

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

```
0
1
2
3
4
5
6
7
8
9
10
```

4.17

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript">
        function dispnat()
        {
            n=parseInt(prompt("Enter how many natural numbers you want: "));
            for(i=1;i<=n;i++)
            {
                document.write(i+"<br>");
            }
        }
    </script>
</head>
<body>
    <p> first n natural numbers</p>
<form>
    <input type="button" onclick="dispnat()" value="natural numbers">
</form>
</body>
</html>
```

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript">
        function sumnat()
        {
            sum=0;
            n=parseInt(prompt("Enter how many natural numbers sum you want: "));
            for(i=1;i<=n;i++)
            {
                sum+=i;
            }
            document.write("The sum of "+n+" natural numbers is "+sum);
        }
    </script>
</head>
<body>
    <p> Sum of natural numbers</p>
<form>
```

```html
        <input type="button" onclick="sumnat()" value="view sum">
</form>
</body>
</html>
```


The sum of 5 natural numbers is 15

4.19

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/Javascript">
        function ArrayValue()
        {
            var names=new Array();
            names[0]="Habiba";
            names[1]="Shamima";
            names[2]="Rozy";
            for(n in names)
            {
                document.write(names[n]+"<br>");
            }
        }
    </script>
</head>
<body>
    <p>My Friends list</p>
<form>
    <input type="button" onclick="ArrayValue()" value="view friends name">
```

```
</form>
</body>
</html>
```

My Friends list

view friends name

Atharva
Arkay
Sanket

4.20

```
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript">
        function show()
        {
            name=document.frm.t1.value;
            document.write("Username="+name);
        }
    </script>
</head>
<body>
    <form name="frm">
        Username<input tpye="text" name="t1"> <br>
        <input type="button" onclick="show()" value="click">
        <pre> <input type="reset" value="clear"></pre>
    </form>
</body>
</html>
```
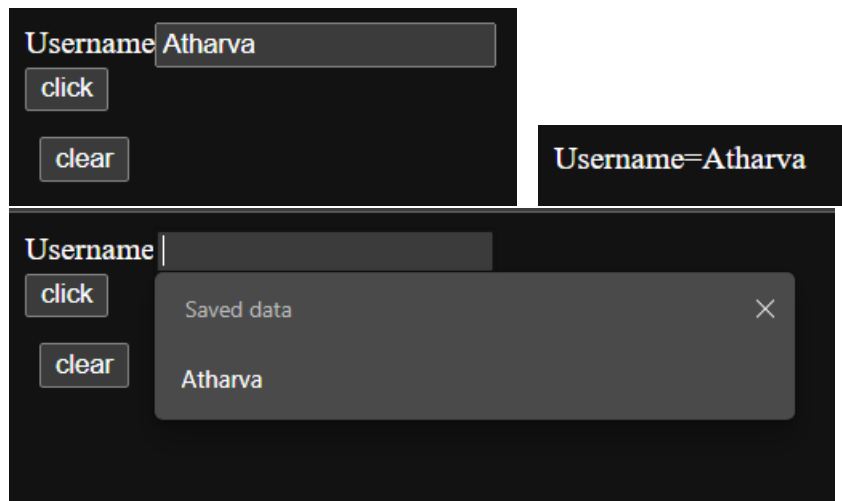
4.21

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript">
        function fact()
        {
            n=parseInt(prompt("Enter a number"));
            i=1;
            fact=1;
            for(i=1;i<=n;i++)
            {
                fact=fact*i;
            }
            document.write("Factorial of  "+n+"  is  " +fact);
        }
    </script>
</head>
<body>
    <form name="frm">
        <input type="button" onclick="fact()" value="click">
    </form>
</body>
</html>
```
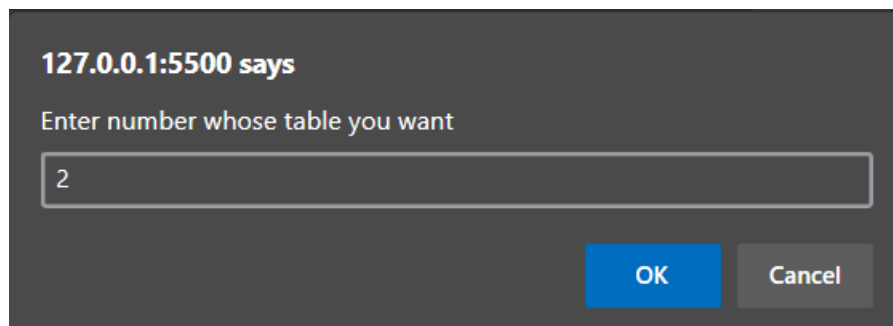
127.0.0.1:5500 says

Enter a number

2

OK   Cancel

click

Factorial of 2 is 2

4.22

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript">
        a=parseInt(prompt("Enter number whose table you want"));
        for (i=1;i<=10;i++)
        {
            mul=i*a;
            document.write(a+"x"+i+"="+mul+"<br>");
        }
    </script>
</body>
</html>
```

127.0.0.1:5500 says

Enter number whose table you want

2

OK   Cancel

```
2x1=2
2x2=4
2x3=6
2x4=8
2x5=10
2x6=12
2x7=14
2x8=16
2x9=18
2x10=20
```

4.23

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
</head>
<body>
    <script type="text/javascript">
        a=0;
        b=1;
        document.write(a+"<br> "+b);
        for(i=1;i<=10;i++)
        {
            c=a+b;
            document.write("<br>"+c);
            a=b;
            b=c;
        }
    </script>
</body>
</html>
```

```
0
1
1
2
3
5
8
13
21
34
55
89
```

4.24

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta http-equiv="X-UA-Compatible" content="IE=edge">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Document</title>
    <script type="text/javascript">
        function login()
        {
            name=document.frm.t1.value;
            pass=document.frm.t2.value;
            if (name=="Atharva" && pass=="1234")
            {
                document.write("Thanks for your login");
            }
            else
            {
                document.write("Wrong username and password");
            }
        }
    </script>
</head>
<body>
    <form name="frm">
        Username<input type="text" name="t1"><br>
        Password<input type="password" name="t2"><br>
        <input type="button" onclick="login()" value="click">
        <pre><input type="reset" value="clear"></pre>
    </form>
</body>
</html>
```

Username Atharva
Password ••••
click

clear

Thanks for your login