

Experiment 2

Aim:

a) Develop and demonstrate, using Javascript script, a XHTML document that collects the USN (the valid format is: A digit from 1 to 4 followed by two upper-case characters followed by two digits followed by two upper-case characters followed by three digits; no embedded spaces allowed) of the user. Event handler must be included for the form element that collects this information to validate the input. Messages in the alert windows must be produced when errors are detected.

b) Modify the above program to get the current semester also (restricted to be a number from 1 to 8)

Experiment 2a: USN Verification

XHTML:

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//w3c//dtd/xhtml11/en"
"http://www.w3.org/tr/xhtml11/dtd/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>Fibonacci</title>
    <script type="text/javascript" src="1a.js"></script>
  </head>
  <body>
    <form name="check">
      <label>Enter your USN: <input type="text" name="usn"/></label>
      <input type="button" value="check" onClick="check_usn(usn.value)" />
    </form>
  </body>
</html>
```

Code 1: 2a.html

Javascript:

```
function check_usn(usn)
{
    var pos=usn.search(/^[1-4][A-Z]{2}[0-9]{2}[A-Z]{2}[0-9]{3}$/);
    if(pos==0)
        alert("Valid USN!");
    else
        alert("Invalid USN!");
}
```

Code 2: 2a.js

Output:

Valid USN case:



Invalid USN:



Experiment 2b: USN and Semester Verification

XHTML:

```
<?xml version="1.0" encoding="utf-8"?>
<!DOCTYPE html PUBLIC "-//w3c//dtd/xhtml11/en"
"http://www.w3.org/tr/xhtml11/dtd/xhtml11.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <title>USN match</title>
    <script type="text/javascript" src="2b.js"></script>
  </head>
  <body>
    <form name="check">
      <p><label>Enter your USN: <input type="text" name="usn"/></label></p>
      <p><label>Enter your SEM: <input type="text" name="sem"/></label></p>
      <p><input type="button" value="check"
                                onClick="check_usn(usn.value,sem.value)" /></p>
    </form>
  </body></html>
```

Code 3 : 2b.html

Javascript:

```
function check_usn(usn,sem)
{
    var pos1=usn.search(/^[1-4][A-Z]{2}[0-9]{2}[A-Z]{2}[0-9]{3}$/);
    var pos2=sem.search(/^[1-8]$/);

    if(pos1==0 && pos2==0)
        alert("Valid USN and SEM!");
    else if(pos1==0)
        alert("Valid USN, invalid SEM!");
    else if(pos2==0)
        alert("Invalid USN, Valid SEM!");
    else
        alert("Invalid USN and SEM!");
}
```

Code 4: 2b.js

Output:

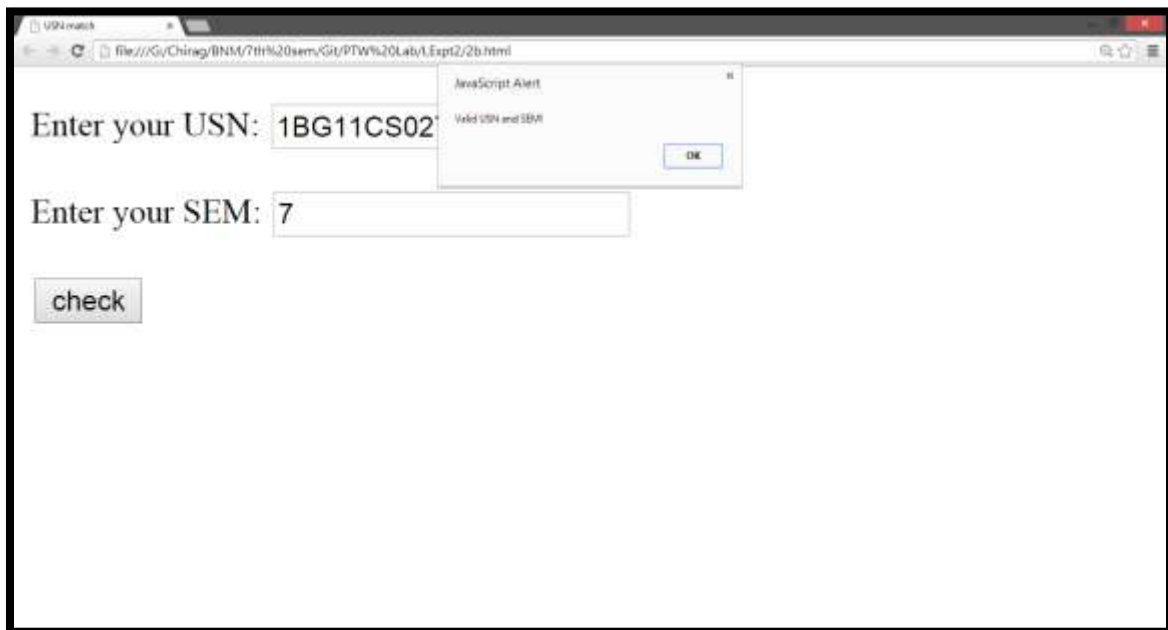
Valid USN and semester:



Enter your USN: 1BG11CS027

Enter your SEM: 7

check




Enter your USN: 1BG11CS02

Enter your SEM: 7

check

JavaScript Alert
Valid USN and SEM
OK

Invalid USN and valid semester:

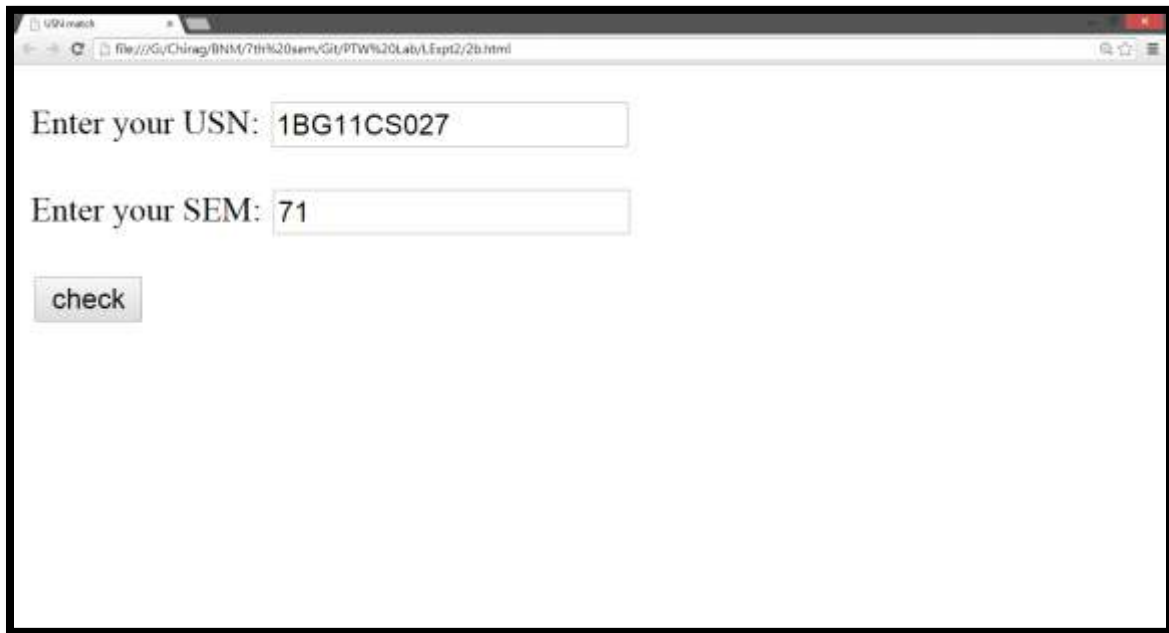


A screenshot of a web browser window showing a form titled "USN match". The form has two input fields: "Enter your USN:" with the value "1BG11CS0278" and "Enter your SEM:" with the value "7". Below the fields is a "check" button. The browser's address bar shows the file path: "file:///G:/Chirag/BNM/7th%20sem/Git/PTW%20Lab/L.Expt2/2b.html".



A screenshot of the same web browser window as above, but with an "Invalid USN, valid SEM" alert message displayed. The alert is a small dialog box with the text "Invalid USN, valid SEM" and an "OK" button. The form fields and the "check" button are still visible in the background.

Valid USN and invalid semester:



A screenshot of a web browser window titled "USN match". The address bar shows the file path: file:///G:/Chirag/BNM/7th%20sem/Git/PTW%20Lab/LExp12/2b.html. The form contains two input fields: "Enter your USN:" with the value "1BG11CS027" and "Enter your SEM:" with the value "71". Below the fields is a "check" button.



A screenshot of the same web browser window. An "JavaScript Alert" dialog box is displayed in the center, with the message "Valid USN, Invalid SEM" and an "OK" button. The form fields and the "check" button are still visible in the background.

Invalid USN and semester:



A screenshot of a web browser window showing a form titled "USN match". The form has two input fields: "Enter your USN:" with the value "1BG11CS0278" and "Enter your SEM:" with the value "71". Below the fields is a "check" button. The browser's address bar shows the file path: "file:///G:/Chirag/BNM/7th%20sem/Git/PTW%20Lab/LExp12/2b.html".



A screenshot of the same web browser window after clicking the "check" button. A JavaScript alert box is displayed in the center of the screen with the message "Invalid USN and SEM!". The alert box has a title bar that says "JavaScript Alert" and a single button labeled "OK". The form fields and the "check" button are still visible in the background.