2)(a)Develop and demonstrate using javascript, a XHTML document that collects the USN (the valid format is :a digit from 1 to 4 followed by 2 upper case characters followed by 2 digits followed by 2 upper case characters followed by 3 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.

```
    <?xml version = "1.0" encoding = "utf-8" ?>
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.1//EN"
"http://www.w3.org/TR/xhtml11/DTD/xhtml11.dtd">
<html xmlns = "http://www.w3.org/1999/xhtml">
<script type="text/javascript">
var usn,regexp;


function formValidator()
{
      usn = document.getElementById("field1");
  regexp=/[1-4][A-Z][A-Z][0-9][0-9][A-Z][A-Z][0-9][0-9][0-9]$/;
      if(usn.value.length == 0)
      {
            alert("USN is empty");
            return;
      }


else if(!usn.value.match(regexp))
      {
            alert(usn.value+"\n Entered USN is Wrong!!!,\n It
            should be in DUUDDUUDDD format");
            return;
      }
      alert(usn.value+"\n USN is in correct format");
 }
```

</script>

```
<head><title>USN validator</title></head>

<body>

<form onsubmit="return formValidator()">

<h4>Enter your USN. in DUUDDUUDDD format : <input type="text"
id="field1"/></h4>

Where D stands for digit and U stands for upper case letter

<input type="submit" value="Check Field" />

</form>

</body>

</html>
```
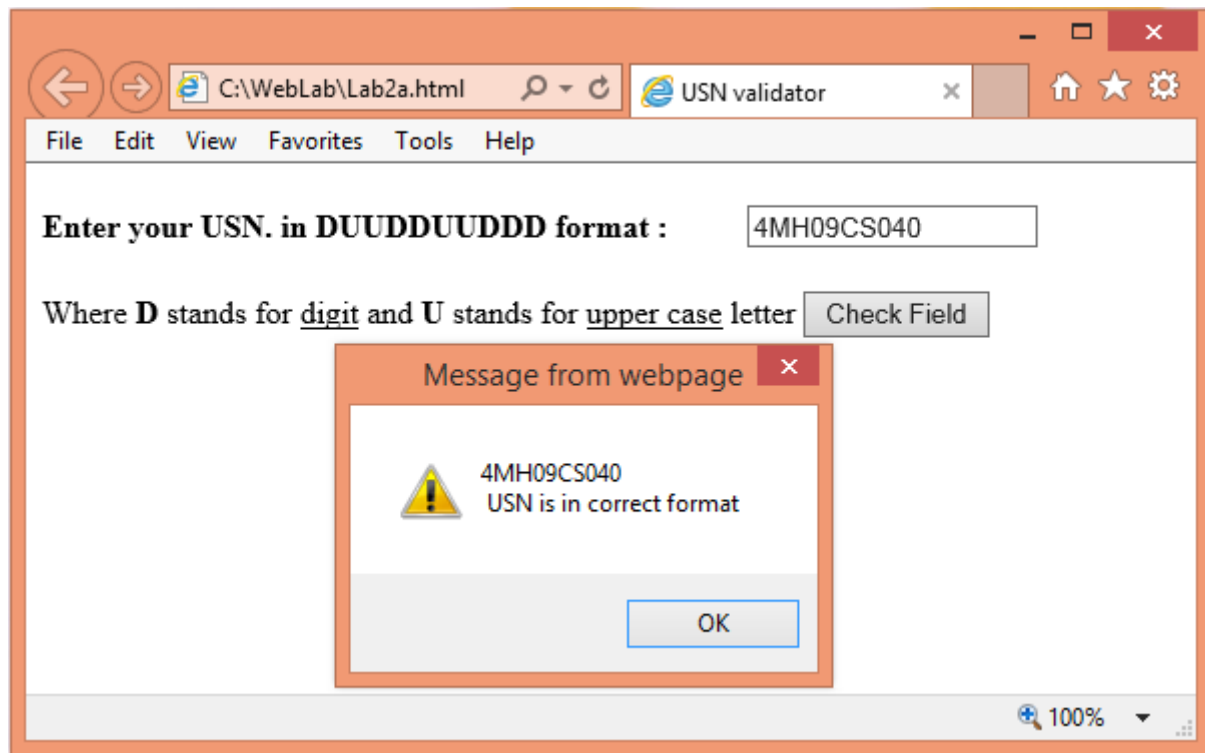
OUTPUT:payroll.html

Run 1:

Run 2: