2)(a) Design an application to run the payroll of an individual with a valid UID. a)A web- page to collect UID (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.

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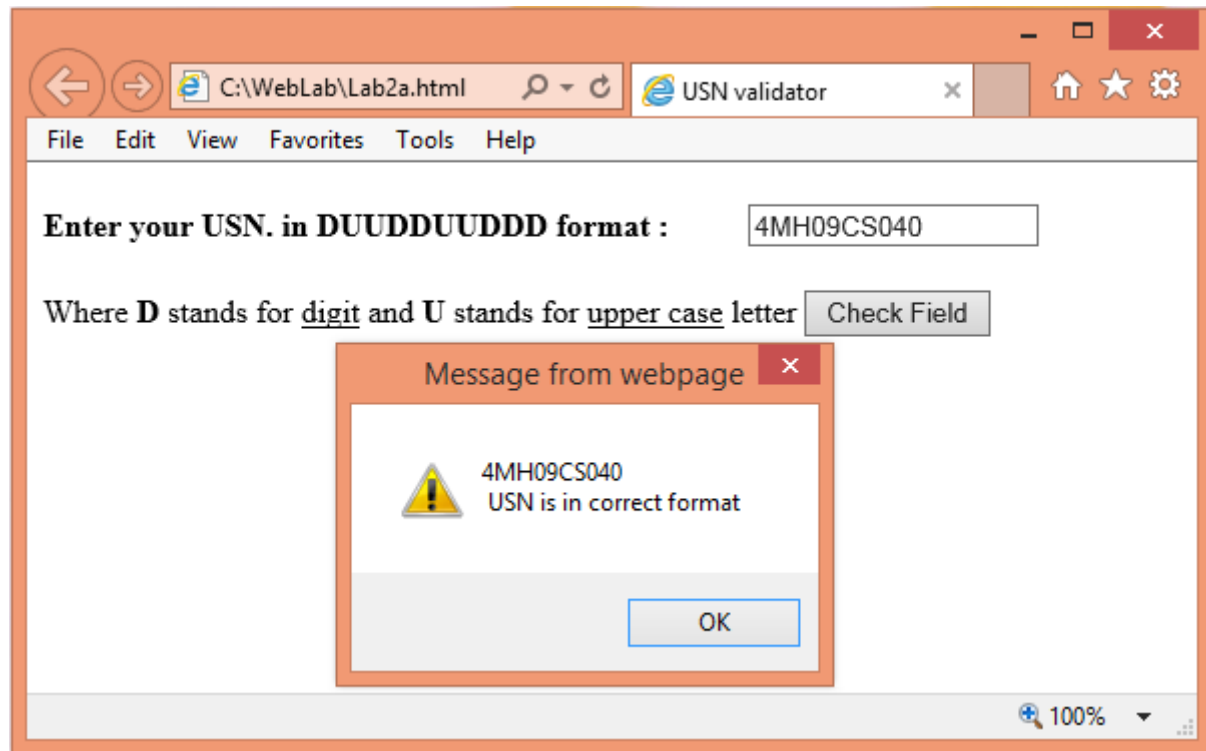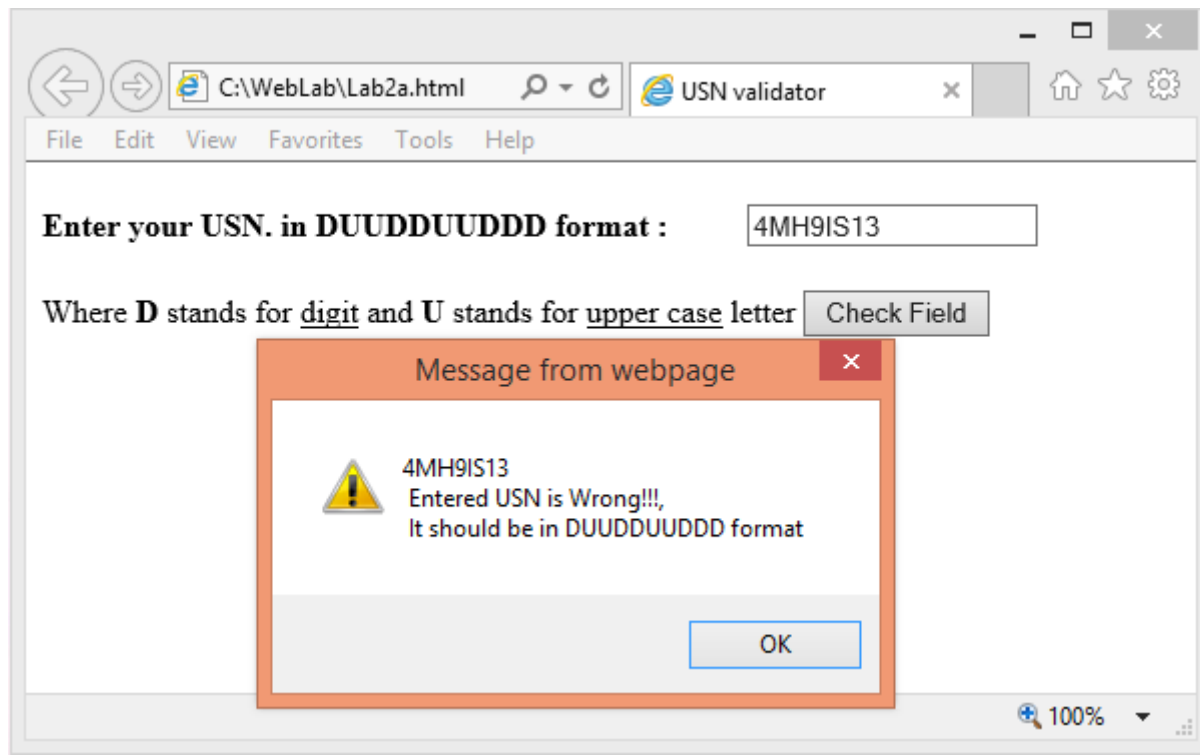
OUTPUT:payroll.html

Run 1:

Run 2:

b)Write servlet program to retrieve salary information using JDBC API and display in the above format. Assume Basic salary, conv is available in DB. Remaining parameters are to be computed after retrieving basic salary (BS) , DA-2% of BS, HRA 30% of BS, Spl Allow 4.5% of BS. PF, PT are standard values. TDS is 10% of earnings.

```
import java.util.*;
class employee
{
    private String employeid;
    private String empname;
    private int basicsalary,HRA,DA,GS,incometax,netsalary;
    public void read()
    {
        Scanner scan=new Scanner(System.in);
        System.out.println("Enter the employee id");//taking all the inputs from the user
```

```java
        employeid=scan.next();
        System.out.println("Enter the employee name");
        empname=scan.next();
        System.out.println("Enter the basic salary of an employee");
        basicsalary=scan.nextInt();
        calculate();
    }
    public void calculate()  //calculating all the parameters
    {
        HRA=(30/100)*basicsalary;
        DA=(2/100)*basicsalary;
        GS=basicsalary+DA+HRA;
        spl=(4.5/100)*GS;
        netsalary=GS-incometax;
    }
    public void display()  //displaying the calculating parameters
    {
        System.out.println("Employeeid : "+employeid+"n"+"Employename :
"+empname+"n"+"Employee basic salary : "+basicsalary+"n"+"HRA :
"+HRA+"n"+"DA : "+DA+"n"+"GS : "+GS+"n"+spl :
"+spl+"n"+"netsalary : "+netsalary);
    }

}
class main //main function
{
    public static void main(String args[])
    {
        employee employeeobj=new employee();
        employeeobj.read(); //calling read function
        employeeobj.display();//calling display function
    }
}
```