

Despliegue de Aplicaciones Web:

JDBC 7

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NIA: 13298631. **Curso:** 2do DAW.

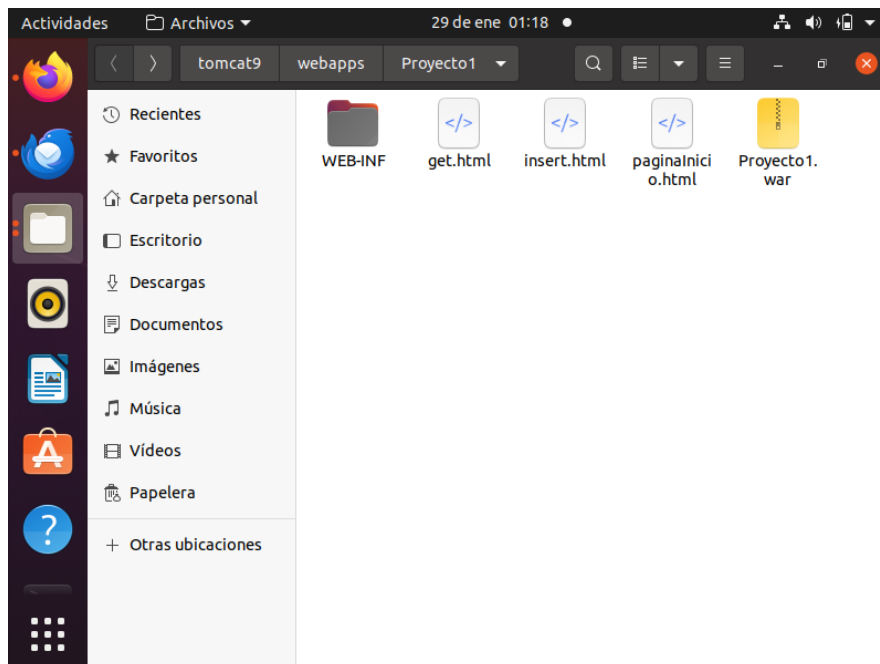
Instituto: I.E.S La Sènia.

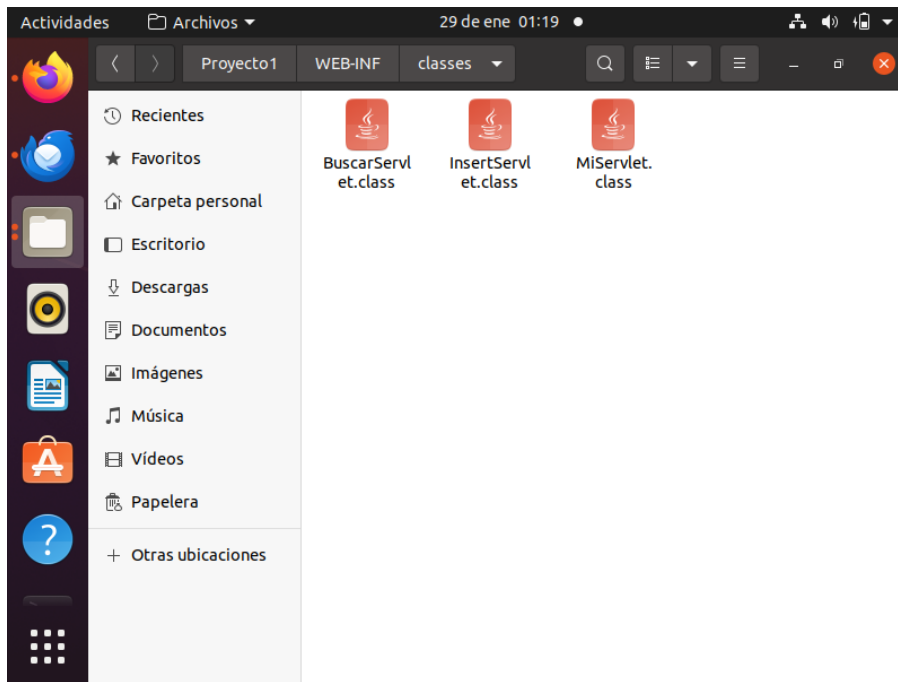
Año: 2025-2026.

Program a webpage including a menu with two options: data insertion and retrieval (with a DNI). You can use two servlets. The webpages provided by the servlets must make easy to access the form again. You can use hyperlinks if needed.

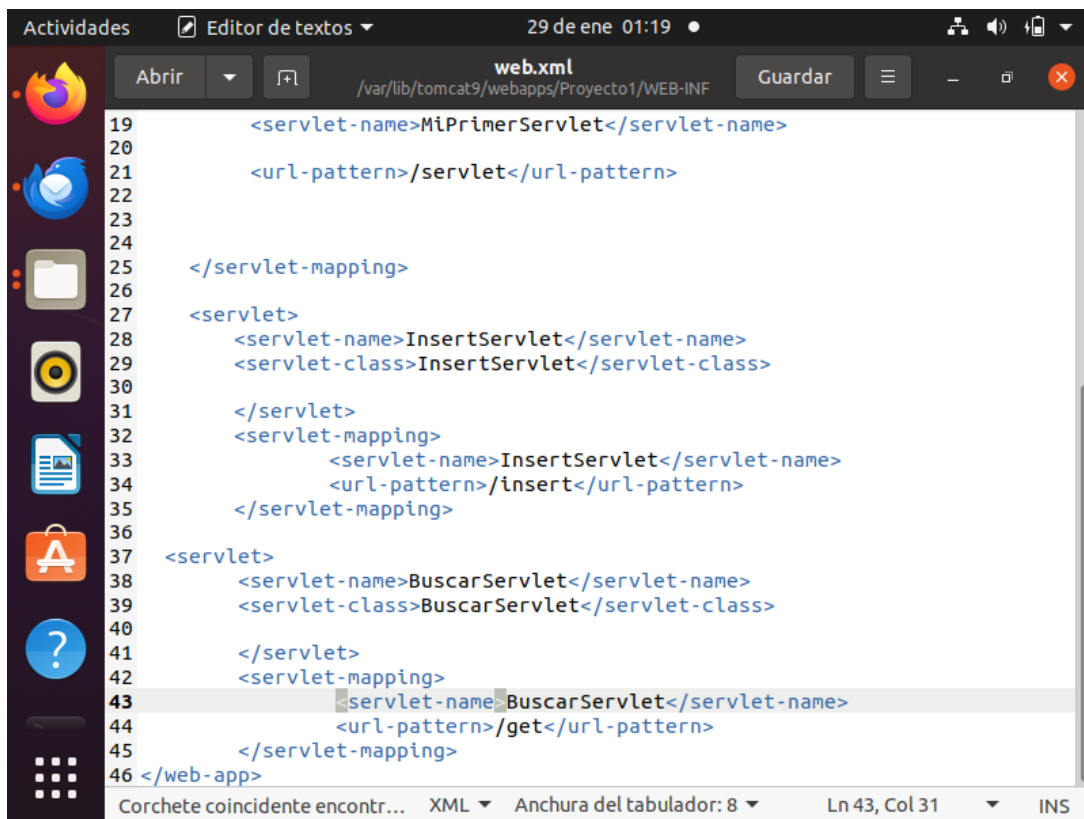
For this task we need to work with more classes and views. I have created 3 screens

and 2 servlets more:

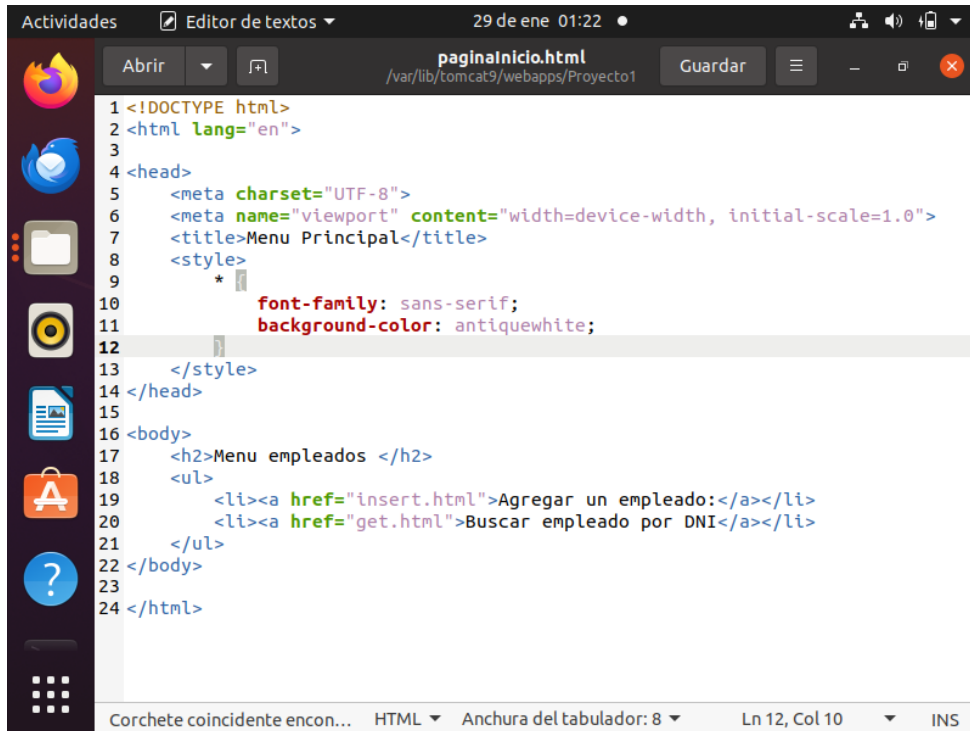




I need to add the servlet to web.xml

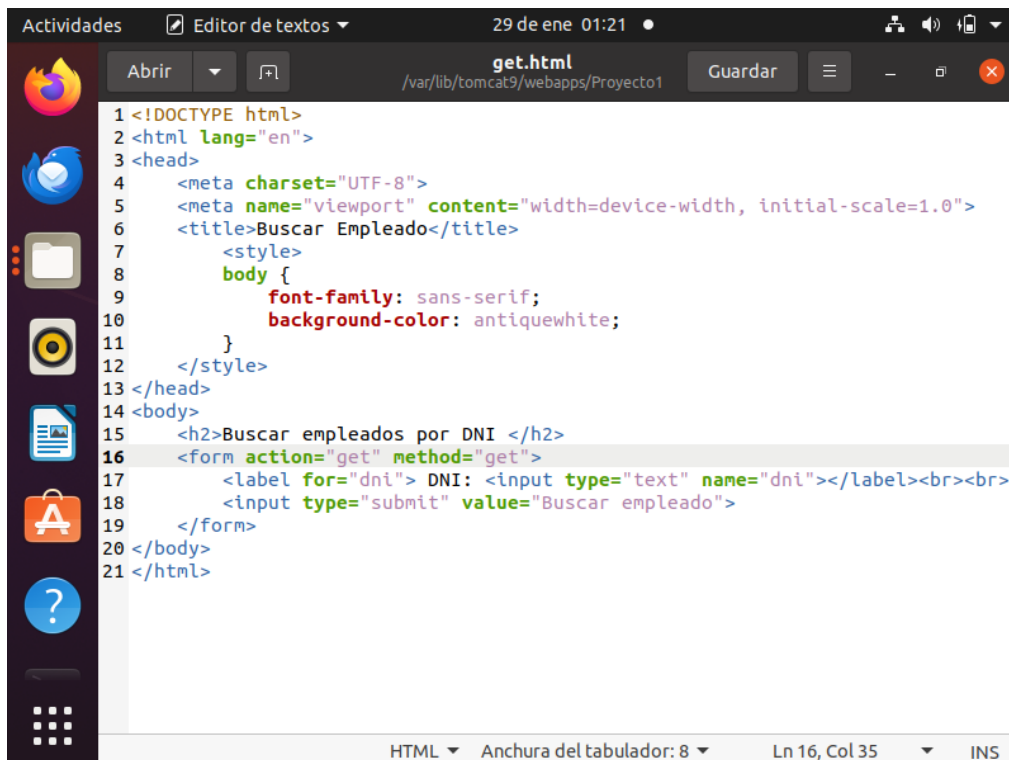


PaginalInicio.html: This page is responsible for displaying and redirecting us.



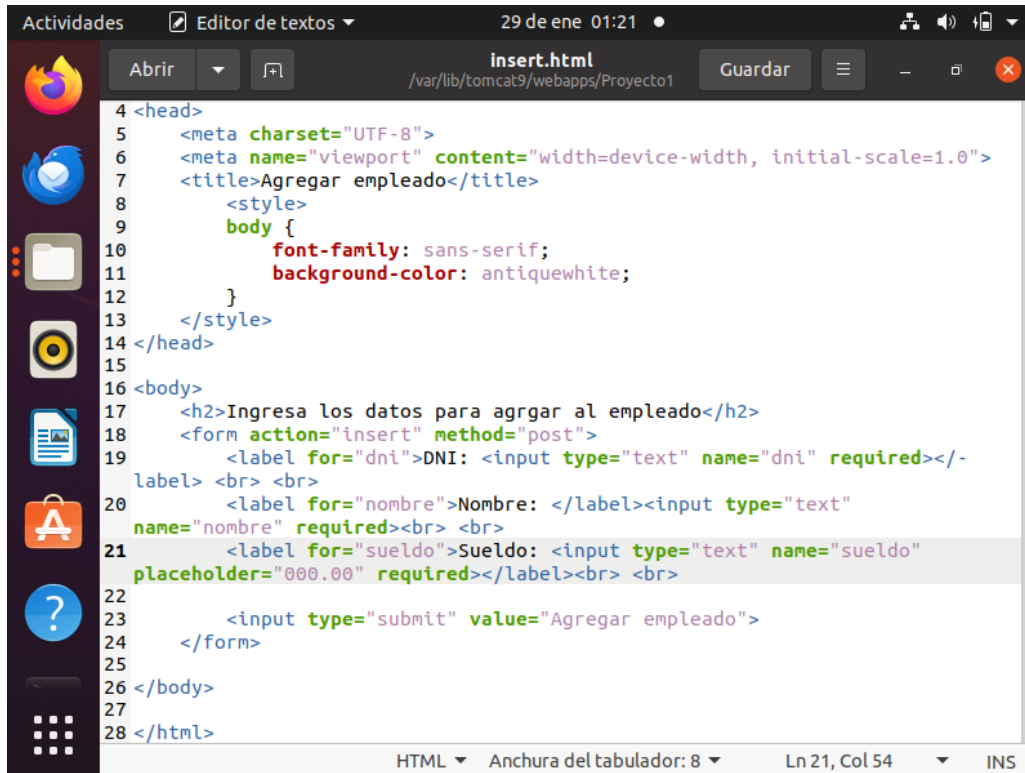
```
1 <!DOCTYPE html>
2 <html lang="en">
3
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Menu Principal</title>
8   <style>
9     *
10      font-family: sans-serif;
11      background-color: antiquewhite;
12
13   </style>
14 </head>
15
16 <body>
17   <h2>Menu empleados </h2>
18   <ul>
19     <li><a href="insert.html">Agregar un empleado:</a></li>
20     <li><a href="get.html">Buscar empleado por DNI</a></li>
21   </ul>
22 </body>
23
24 </html>
```

Get.html form: retrieves data from the form for the search



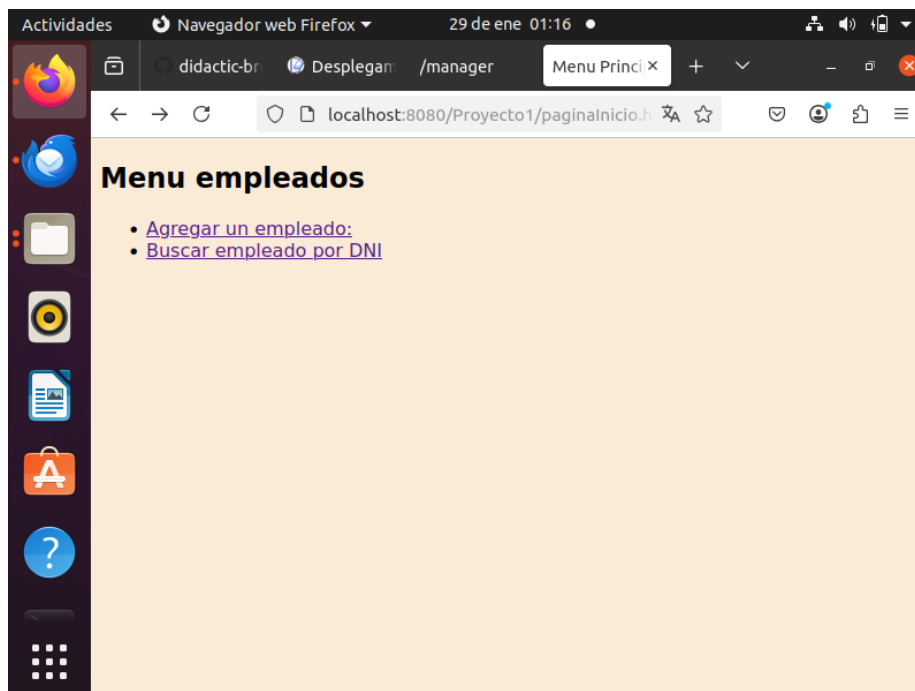
```
1 <!DOCTYPE html>
2 <html lang="en">
3 <head>
4   <meta charset="UTF-8">
5   <meta name="viewport" content="width=device-width, initial-scale=1.0">
6   <title>Buscar Empleado</title>
7   <style>
8     body {
9       font-family: sans-serif;
10      background-color: antiquewhite;
11    }
12  </style>
13 </head>
14 <body>
15   <h2>Buscar empleados por DNI </h2>
16   <form action="get" method="get">
17     <label for="dni"> DNI: <input type="text" name="dni"></label><br><br>
18     <input type="submit" value="Buscar empleado">
19   </form>
20 </body>
21 </html>
```

Insert.html: retrieves data from the form to add an employee



```
4 <head>
5   <meta charset="UTF-8">
6   <meta name="viewport" content="width=device-width, initial-scale=1.0">
7   <title>Agregar empleado</title>
8   <style>
9     body {
10       font-family: sans-serif;
11       background-color: antiquewhite;
12     }
13   </style>
14 </head>
15
16 <body>
17   <h2>Ingresa los datos para agrgar al empleado</h2>
18   <form action="insert" method="post">
19     <label for="dni">DNI: <input type="text" name="dni" required></-
label> <br> <br>
20     <label for="nombre">Nombre: </label><input type="text"
name="nombre" required><br> <br>
21     <label for="sueldo">Sueldo: <input type="text" name="sueldo"
placeholder="000.00" required></label><br> <br>
22     <input type="submit" value="Agregar empleado">
23   </form>
24
25
26 </body>
27
28 </html>
```

init page:



Search for employee by DNI



Select query result



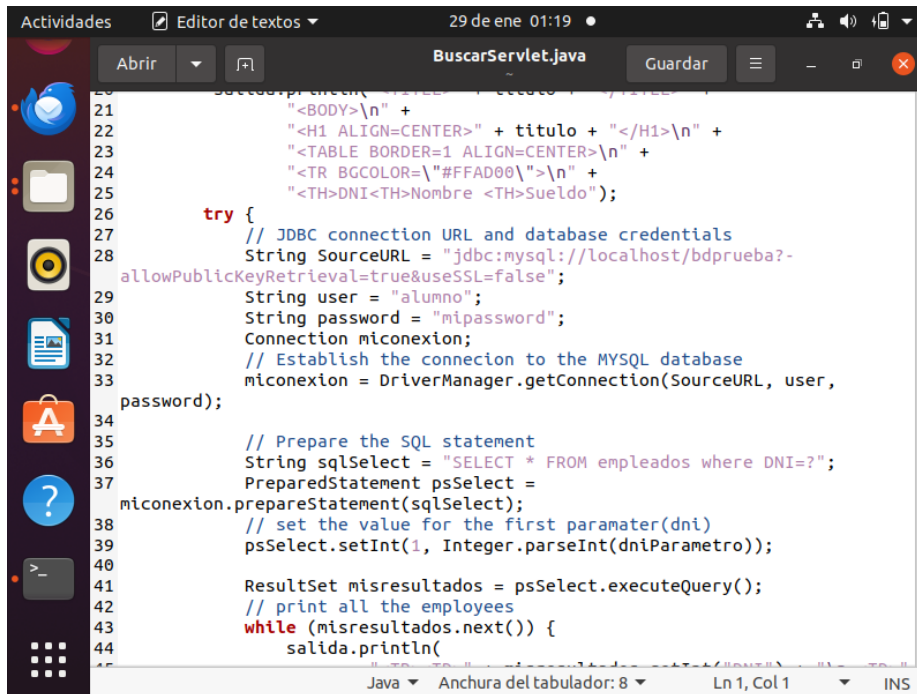
Insert Employees:



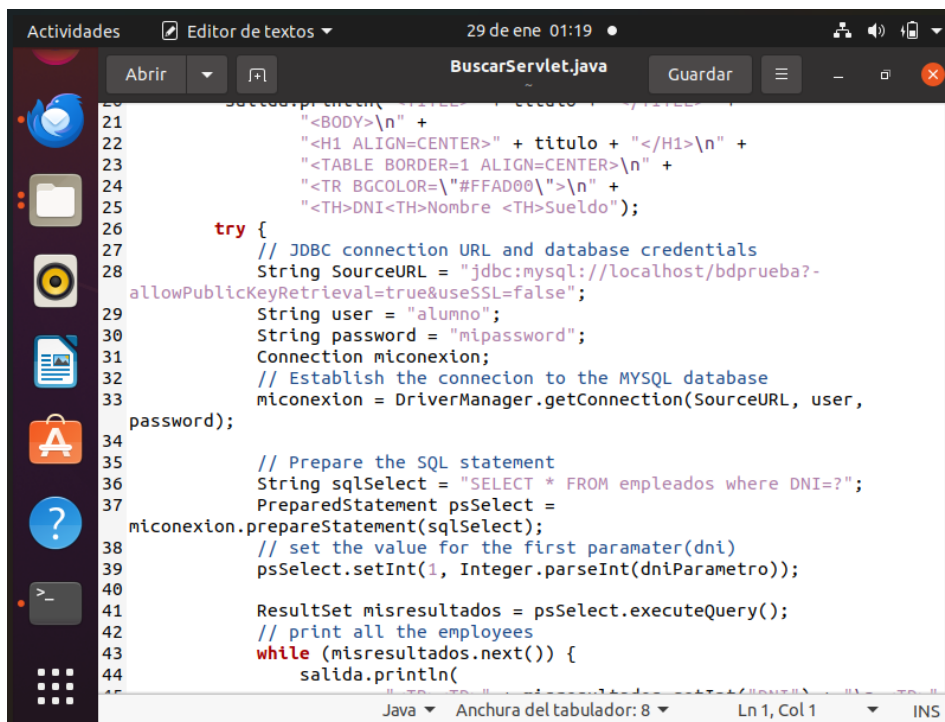
We can see that the user has been added successfully.



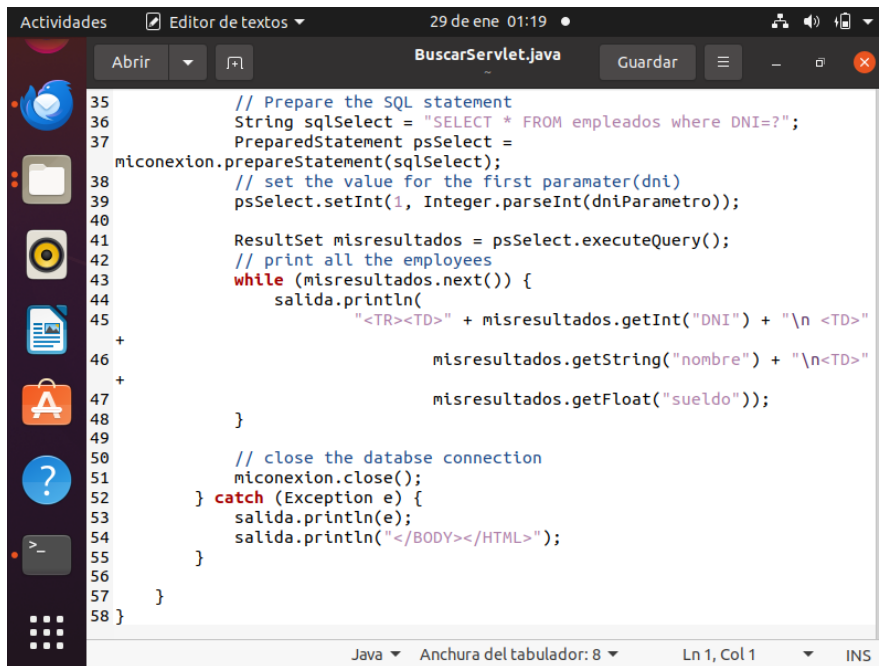
Search code:



```
21         "<BODY>\n" +
22         "<H1 ALIGN=CENTER>" + titulo + "</H1>\n" +
23         "<TABLE BORDER=1 ALIGN=CENTER>\n" +
24         "<TR BGCOLOR=\"#FFAD00\">\n" +
25         "<TH>DNI<TH>Nombre <TH>Sueldo");
26     try {
27         // JDBC connection URL and database credentials
28         String SourceURL = "jdbc:mysql://localhost/bdprueba?-
allowPublicKeyRetrieval=true&useSSL=false";
29         String user = "alumno";
30         String password = "mipassword";
31         Connection miconexion;
32         // Establish the connection to the MYSQL database
33         miconexion = DriverManager.getConnection(SourceURL, user,
password);
34
35         // Prepare the SQL statement
36         String sqlSelect = "SELECT * FROM empleados where DNI=?";
37         PreparedStatement psSelect =
miconexion.prepareStatement(sqlSelect);
38         // set the value for the first paramater(dni)
39         psSelect.setInt(1, Integer.parseInt(dniParametro));
40
41         ResultSet misresultados = psSelect.executeQuery();
42         // print all the employees
43         while (misresultados.next()) {
44             salida.println(
45                 "<TR>\n" +
46                 "<TD>" + misresultados.getString(1) + "<TD>" +
misresultados.getString(2) + "<TD>" + misresultados.getString(3) +
47                 "</TR>\n");
48     }
49     catch (SQLException e) {
50         e.printStackTrace();
51     }
52 }
```

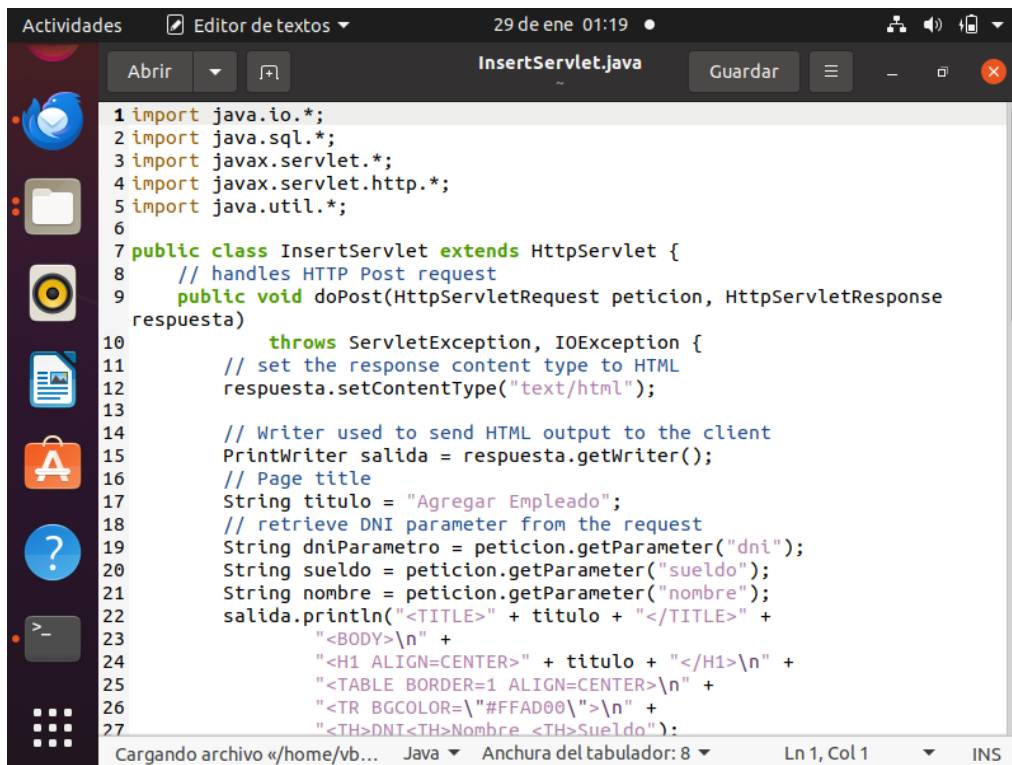


```
21         "<BODY>\n" +
22         "<H1 ALIGN=CENTER>" + titulo + "</H1>\n" +
23         "<TABLE BORDER=1 ALIGN=CENTER>\n" +
24         "<TR BGCOLOR=\"#FFAD00\">\n" +
25         "<TH>DNI<TH>Nombre <TH>Sueldo");
26     try {
27         // JDBC connection URL and database credentials
28         String SourceURL = "jdbc:mysql://localhost/bdprueba?-
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29         String user = "alumno";
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31         Connection miconexion;
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33         miconexion = DriverManager.getConnection(SourceURL, user,
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37         PreparedStatement psSelect =
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44             salida.println(
45                 "<TR>\n" +
46                 "<TD>" + misresultados.getString(1) + "<TD>" +
misresultados.getString(2) + "<TD>" + misresultados.getString(3) +
47                 "</TR>\n");
48     }
49     catch (SQLException e) {
50         e.printStackTrace();
51     }
52 }
```



```
35 // Prepare the SQL statement
36 String sqlSelect = "SELECT * FROM empleados where DNI=?";
37 PreparedStatement psSelect =
    miconexion.prepareStatement(sqlSelect);
38 // set the value for the first paramater(dni)
39 psSelect.setInt(1, Integer.parseInt(dniParametro));
40
41 ResultSet misresultados = psSelect.executeQuery();
42 // print all the employees
43 while (misresultados.next()) {
44     salida.println(
45         "<TR><TD>" + misresultados.getInt("DNI") + "\n <TD>"
46         +
47         misresultados.getString("nombre") + "\n<TD>"
48         +
49         misresultados.getFloat("sueldo"));
50     }
51 // close the database connection
52 miconexion.close();
53 } catch (Exception e) {
54     salida.println(e);
55     salida.println("</BODY></HTML>");
56 }
57 }
58 }
```

Insert code:



```
1 import java.io.*;
2 import java.sql.*;
3 import javax.servlet.*;
4 import javax.servlet.http.*;
5 import java.util.*;
6
7 public class InsertServlet extends HttpServlet {
8     // handles HTTP Post request
9     public void doPost(HttpServletRequest petition, HttpServletResponse
    respuesta)
10         throws ServletException, IOException {
11         // set the response content type to HTML
12         respuesta.setContentType("text/html");
13
14         // Writer used to send HTML output to the client
15         PrintWriter salida = respuesta.getWriter();
16         // Page title
17         String titulo = "Agregar Empleado";
18         // retrieve DNI parameter from the request
19         String dniParametro = petition.getParameter("dni");
20         String sueldo = petition.getParameter("sueldo");
21         String nombre = petition.getParameter("nombre");
22         salida.println("<TITLE>" + titulo + "</TITLE>" +
23             "<BODY>\n" +
24             "<H1 ALIGN=CENTER>" + titulo + "</H1>\n" +
25             "<TABLE BORDER=1 ALIGN=CENTER>\n" +
26             "<TR BGCOLOR=\"#FFAD00\">\n" +
27             "<TH>DNI<TH>Nombre <TH>Sueldo");
```

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InsertServlet.java Guardar

```
20 String sueldo = petition.getParameter("sueldo");
21 String nombre = petition.getParameter("nombre");
22 salida.println("<TITLE>" + titulo + "</TITLE>" +
23 "<BODY>\n" +
24 "<H1 ALIGN=CENTER>" + titulo + "</H1>\n" +
25 "<TABLE BORDER=1 ALIGN=CENTER>\n" +
26 "<TR BGCOLOR=\"#FFAD00\">\n" +
27 "<TH>DNI<TH>Nombre <TH>Sueldo");
28
29 try {
30     // JDBC connection URL and database credentials
31     String SourceURL = "jdbc:mysql://localhost/bdprueba?-
allowPublicKeyRetrieval=true&useSSL=false";
32     String user = "alumno";
33     String password = "mipassword";
34     Connection miconexion;
35
36     // Establish the connection to the MYSQL database
37     miconexion = DriverManager.getConnection(SourceURL, user,
password);
38     PreparedStatement ps;
39     String sql = "INSERT INTO empleados (DNI, nombre, sueldo)
values(?,?,?)";
40     // Prepare the SQL statement
41     ps = miconexion.prepareStatement(sql);
42     // set the value for the first paramater(dni)
43     ps.setInt(1, Integer.parseInt(dniParametro));
44     ps.setString(2, nombre);
45     ps.setFloat(3, Float.parseFloat(sueldo));
```

Java Anchura del tabulador: 8 Ln 1, Col 1 INS

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InsertServlet.java Guardar

```
45 ps.setFloat(3, Float.parseFloat(sueldo));
46 // execute the prepared query
47 int rowAffect = ps.executeUpdate();
48
49 if (rowAffect > 0) {
50     salida.println("<p>Usuario agreagado con éxito</p>");
51     String sqlSelect = "SELECT * FROM empleados";
52     ps.executeQuery(sqlSelect);
53     PreparedStatement psSelect =
miconexion.prepareStatement(sqlSelect);
54     // psSelect.setInt(1, Integer.parseInt(dniParametro));
55     ResultSet misresultados = psSelect.executeQuery();
56     // print all the employees
57     while (misresultados.next()) {
58         salida.println(
59             "<TR><TD>" + misresultados.getInt("DNI") + "\n
<TD>" +
60             misresultados.getString("nombre") +
61             "\n<TD>" +
62             misresultados.getFloat("sueldo"));
63     }
64 } catch (Exception e) {
65     salida.println(e);
66     salida.println("</BODY></HTML>");
67 }
68 }
69 }
```

Java Anchura del tabulador: 8 Ln 1, Col 1 INS

