

Despliegue de Aplicaciones Web:

JDBC 7

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

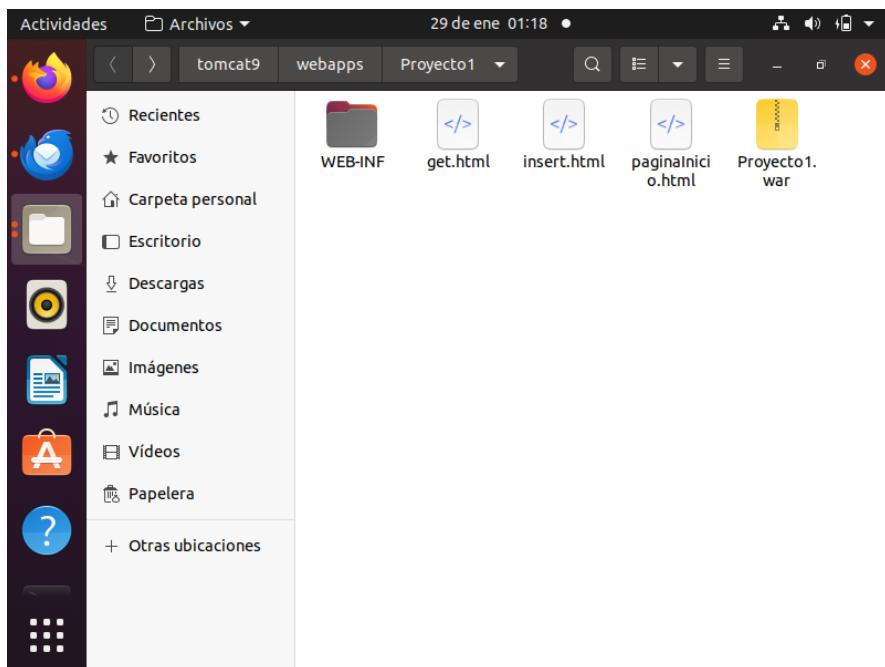
Instituto: I.E.S La Sènia.

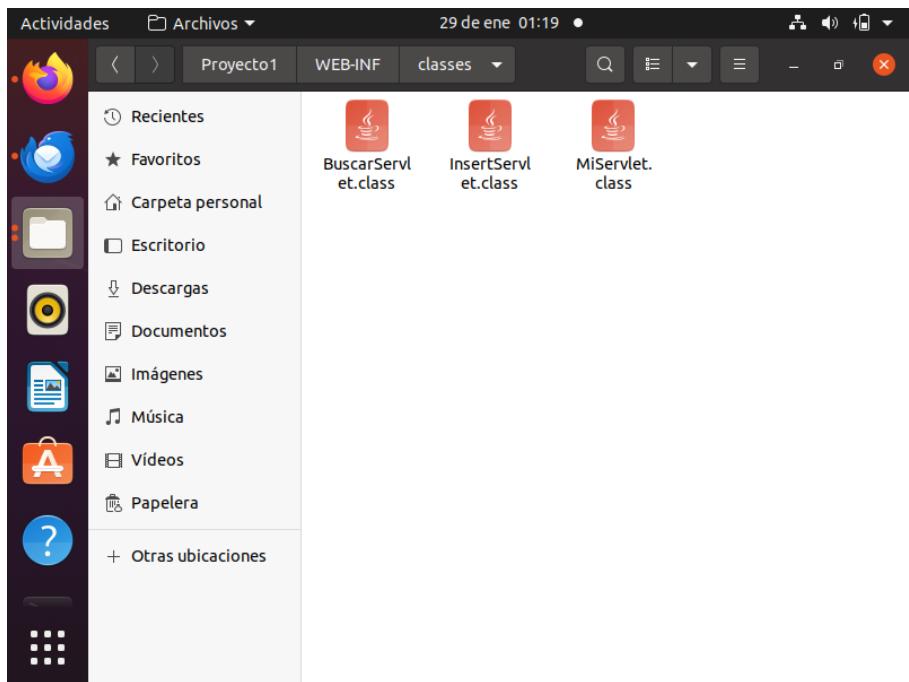
Año: 2025-2026.

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:



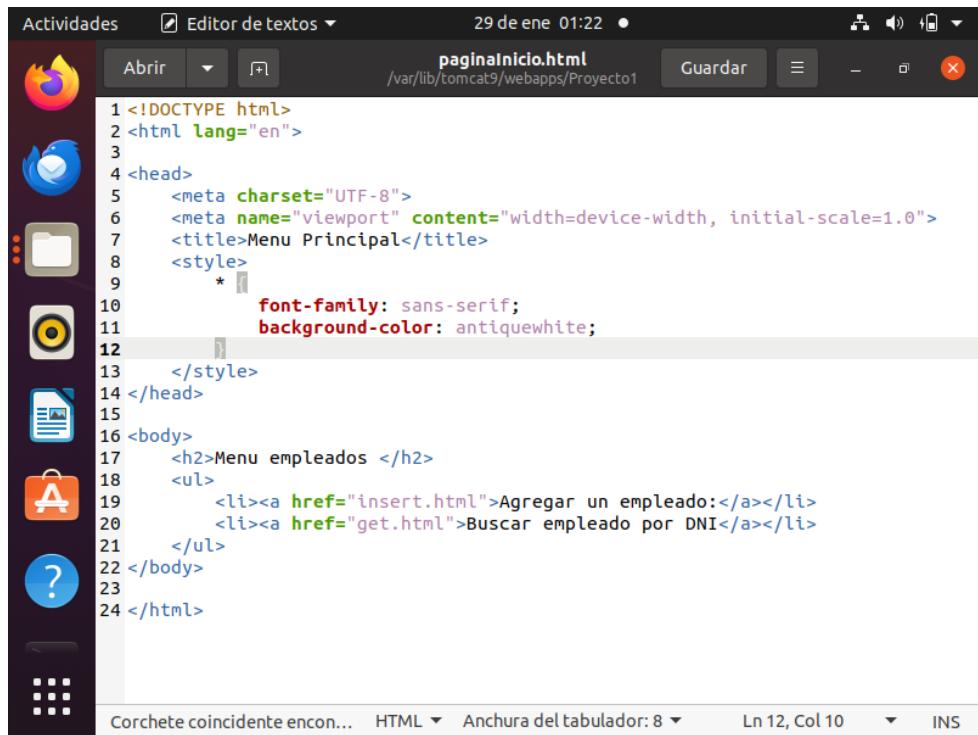


I need to add the servlet to web.xml

```
Actividades Editor de textos 29 de ene 01:19 •
Abrir Guardar
web.xml /var/lib/tomcat9/webapps/Proyecto1/WEB-INF
19     <servlet-name>MiPrimerServlet</servlet-name>
20
21     <url-pattern>/servlet</url-pattern>
22
23
24     </servlet-mapping>
25
26
27     <servlet>
28         <servlet-name>InsertServlet</servlet-name>
29         <servlet-class>InsertServlet</servlet-class>
30
31     </servlet>
32     <servlet-mapping>
33         <servlet-name>InsertServlet</servlet-name>
34         <url-pattern>/insert</url-pattern>
35     </servlet-mapping>
36
37     <servlet>
38         <servlet-name>BuscarServlet</servlet-name>
39         <servlet-class>BuscarServlet</servlet-class>
40
41     </servlet>
42     <servlet-mapping>
43         <servlet-name>BuscarServlet</servlet-name>
44         <url-pattern>/get</url-pattern>
45     </servlet-mapping>
46 </web-app>
```

Corchete coincidente encontrado... XML ▾ Anchura del tabulador: 8 ▾ Ln 43, Col 31 ▾ INS

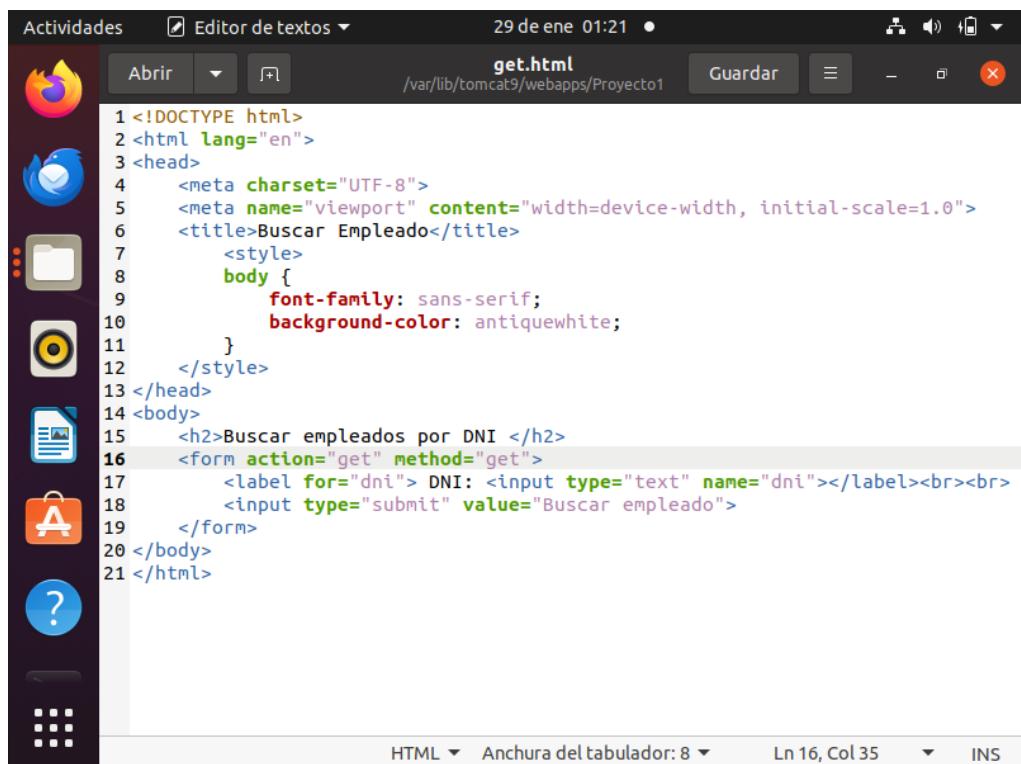
PáginaInicio.html: This page is responsible for displaying and redirecting us.



```
Actividades Editor de textos 29 de ene 01:22 •
Abrir Guardar ×
paginaInicio.html /var/lib/tomcat9/webapps/Proyecto1
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>
```

Corchete coincidente encontrado... HTML Anchura del tabulador: 8 Ln 12, Col 10 INS

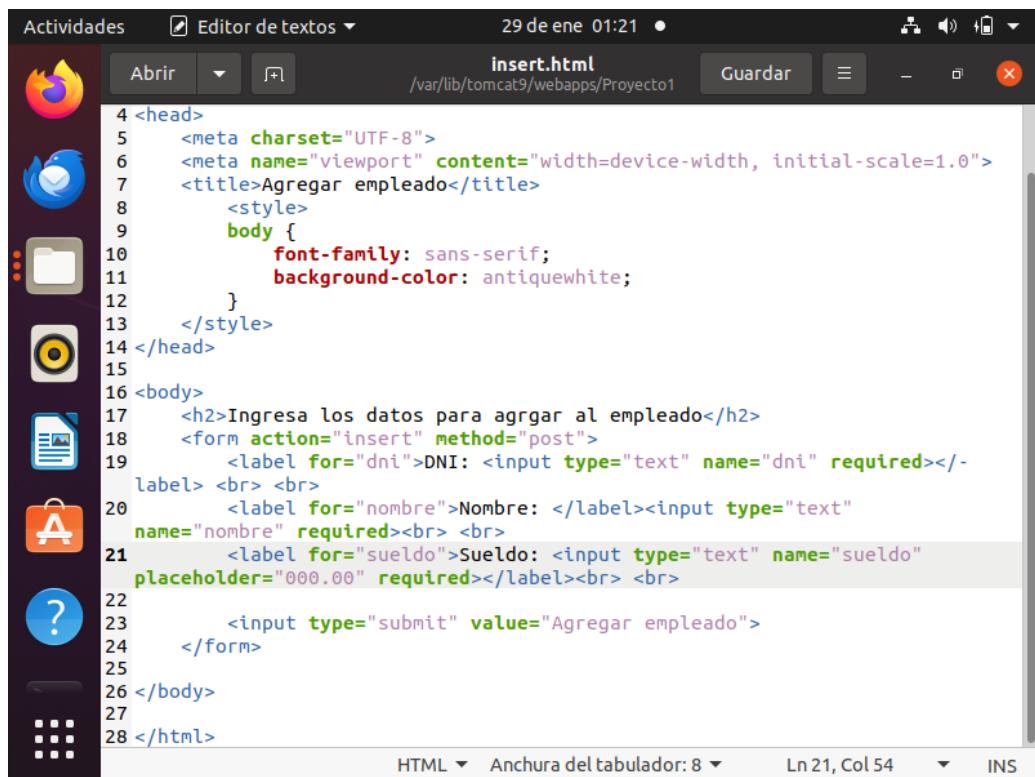
Get.html form: retrieves data from the form for the search



```
Actividades Editor de textos 29 de ene 01:21 •
Abrir Guardar ×
get.html /var/lib/tomcat9/webapps/Proyecto1
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>
```

HTML Anchura del tabulador: 8 Ln 16, Col 35 INS

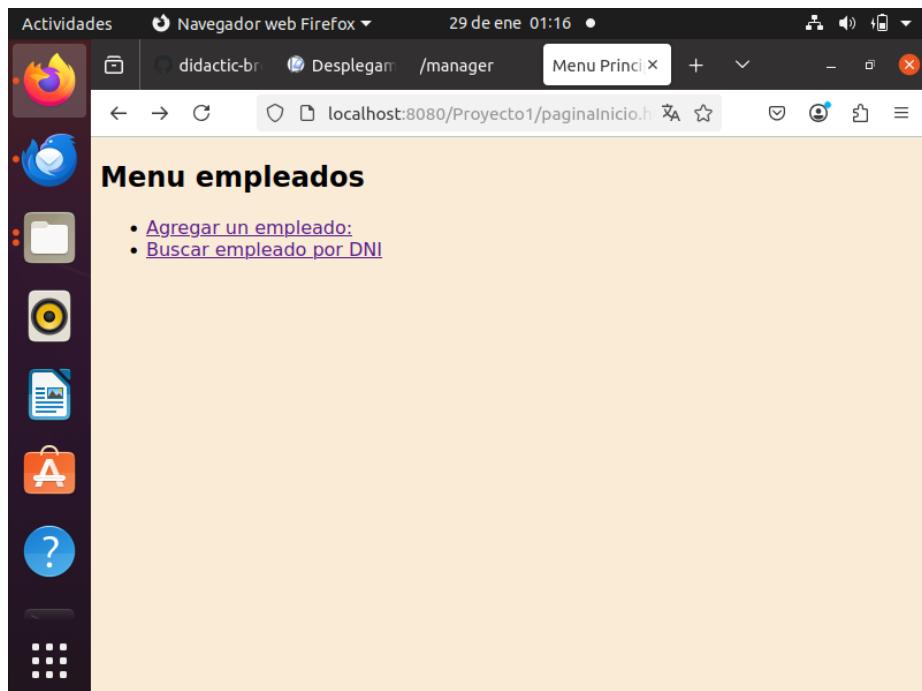
Insert.html: retrieves data from the form to add an employee



```
Actividades Editor de textos 29 de ene 01:21 • Guardar ×
Abrir /var/lib/tomcat9/webapps/Proyecto1 insert.html
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>
```

HTML Anchura del tabulador: 8 ▾ Ln 21, Col 54 ▾ INS

init page:



Search for employee by DNI



The screenshot shows a Firefox browser window titled "Navegador web Firefox". The address bar displays "localhost:8080/Proyecto1/get.html". The main content area is titled "Buscar empleados por DNI". It contains a form with a text input field labeled "DNI:" containing the value "38342343" and a button labeled "Buscar empleado". To the left of the browser window is a vertical docked panel with various icons.

Select query result



The screenshot shows a Firefox browser window titled "Navegador web Firefox". The address bar displays "localhost:8080/Proyecto1/get?dni=38342343". The main content area is titled "Búsqueda de Empleado por DNI". It displays a table with three columns: "DNI", "Nombre", and "Sueldo". The table has one row with the values "38342343", "poi", and "1200.0". To the left of the browser window is a vertical docked panel with various icons.

Insert Employees:

Actividades Navegador web Firefox 29 de ene 01:18

didactic-br Despliegan /manager Agregar em x + - ☰

localhost:8080/Proyecto1/insert.html

Ingresá los datos para agregar al empleado

DNI:

Nombre:

Sueldo:

We can see that the user has been added successfully.

Actividades Navegador web Firefox 29 de ene 01:18

didactic-br Despliegan /manager Agregar Em x + - ☰

localhost:8080/Proyecto1/insert

Agregar Empleado

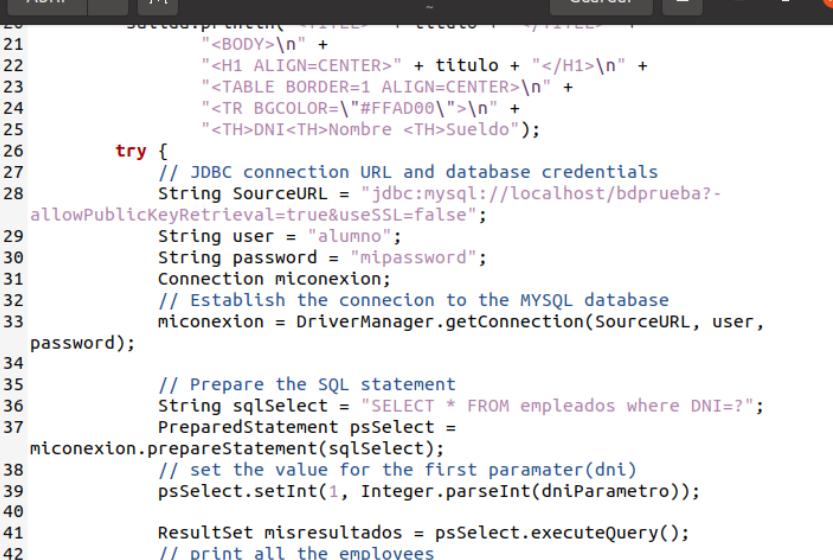
DNI	Nombre	Sueldo
Usuario agregado con éxito		
11111111	Mortadelo	1111.11
22222222	Filemón	2222.22
33333333	Rompetechos	3333.33
38342343	poi	1200.0
38342344	poi	1200.0
55555555	paco	1200.0
88888888	p	1210.0
172839465	surubi	1000.0

Search code:

Actividades Editor de textos 29 de ene 01:19

BuscarServlet.java

```
15
16         System.out.println("DNI: " + dniParametro);
17
18         // Create the output HTML file
19         String salida = "<html>\n" +
20             "    <BODY>\n" +
21             "        <H1 ALIGN= CENTER>" + titulo + "</H1>\n" +
22             "        <TABLE BORDER=1 ALIGN= CENTER>\n" +
23             "            <TR BGCOLOR= "#FFAD00"\>\n" +
24             "                <TH>DNI<TH>Nombre <TH>Sueldo");
25
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 parameter(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("DNI") +
47                     "<TD>" + misresultados.getString("Nombre") +
48                     "<TD>" + misresultados.getDouble("Sueldo") +
49                     "</TR>\n");
50
51     }
52
53     // Write the output file
54     File archivo = new File("resultado.html");
55     FileWriter fw = new FileWriter(archivo);
56     fw.write(salida);
57     fw.close();
58
59     // Print the output file
60     System.out.println("El resultado se ha escrito en el archivo resultado.html");
61 }
```



The screenshot shows a Linux desktop environment with a terminal window open. The terminal window has a dark theme and displays Java code related to a Servlet. The code uses JDBC to connect to a MySQL database named 'bdprueba' and retrieves employees from the 'empleados' table based on their DNI. The terminal window is titled 'BuscarServlet.java' and includes standard file operations like 'Abrir' (Open) and 'Guardar' (Save). The desktop background features icons for various applications, including a file manager, a browser, and system settings.

```
Actividades Editor de textos 29 de ene 01:19 •
Abrir Guardar BuscarServlet.java
try {
    // JDBC connection URL and database credentials
    String SourceURL = "jdbc:mysql://localhost/bdprueba?-allowPublicKeyRetrieval=true&useSSL=false";
    String user = "alumno";
    String password = "mipassword";
    Connection miconexion;
    // Establish the connection to the MYSQL database
    miconexion = DriverManager.getConnection(SourceURL, user,
password);
    // Prepare the SQL statement
    String sqlSelect = "SELECT * FROM empleados where DNI=?";
    PreparedStatement psSelect =
    miconexion.prepareStatement(sqlSelect);
    // set the value for the first parameter(dni)
    psSelect.setInt(1, Integer.parseInt(dniParametro));
    ResultSet misresultados = psSelect.executeQuery();
    // print all the employees
    while (misresultados.next()) {
        salida.println(
"
```

A screenshot of a Linux desktop environment. On the left is a dock with icons for a terminal, file manager, browser, and other applications. In the center is a terminal window titled "Actividades" with the sub-tittle "Editor de textos". The terminal shows the date and time: "29 de ene 01:19". Inside the terminal, a Java code editor is open with the file name "BuscarServlet.java". The code is as follows:

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

The status bar at the bottom of the terminal shows "Java" and "Anchura del tabulador: 8".

Insert code:

A screenshot of a Linux desktop environment. On the left is a dock with icons for a terminal, file manager, browser, and other applications. In the center is a terminal window titled "Actividades" with the sub-tittle "Editor de textos". The terminal shows the date and time: "29 de ene 01:19". Inside the terminal, a Java code editor is open with the file name "InsertServlet.java". The code is as follows:

```
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 peticion, HttpServletResponse
10        respuesta)
11         throws ServletException, IOException {
12         // set the response content type to HTML
13         respuesta.setContentType("text/html");
14
15         // Writer used to send HTML output to the client
16         PrintWriter salida = respuesta.getWriter();
17         // Page title
18         String titulo = "Agregar Empleado";
19         // retrieve DNI parameter from the request
20         String dniParametro = peticion.getParameter("dni");
21         String sueldo = peticion.getParameter("sueldo");
22         String nombre = peticion.getParameter("nombre");
23         salida.println("<TITLE>" + titulo + "</TITLE>" +
24             "<BODY>\n" +
25                 "<H1 ALIGN=CENTER>" + titulo + "</H1>\n" +
26                 "<TABLE BORDER=1 ALIGN= CENTER>\n" +
27                     "<TR BGCOLOR=#FFAD00>\n" +
28                         "<TH>DNI<TH>Nombre <TH>Sueldo":
```

The status bar at the bottom of the terminal shows "Cargando archivo «/home/vb...»" and "Java".

Actividades Editor de textos 29 de ene 01:19

InsertServlet.java

```
String salida = peticion.getCharacterStream("salida");
String nombre = peticion.getParameter("nombre");
salida.println("<TITLE>" + titulo + "</TITLE>" +
    "<BODY>\n" +
    "<H1 ALIGN=CENTER>" + titulo + "</H1>\n" +
    "<TABLE BORDER=1 ALIGN=CENTER>\n" +
    "<TR BGCOLOR=#FFAD00>\n" +
    "<TH>DNI<TH>Nombre <TH>Sueldo");
```

try {
 // JDBC connection URL and database credentials
 String SourceURL = "jdbc:mysql://localhost/bdprueba?-allowPublicKeyRetrieval=true&useSSL=false";
 String user = "alumno";
 String password = "mipassword";
 Connection miconexion;

 // Establish the connection to the MYSQL database
 miconexion = DriverManager.getConnection(SourceURL, user,
 password);
 PreparedStatement ps;
 String sql = "INSERT INTO empleados (DNI, nombre, sueldo)
values(?, ?, ?)";
 // Prepare the SQL statement
 ps = miconexion.prepareStatement(sql);
 // set the value for the first parameter(dni)
 ps.setInt(1, Integer.parseInt(dniParametro));
 ps.setString(2, nombre);
 ps.setFloat(3, Float.parseFloat(sueldo));
 // execute the prepared query
 int rowAffect = ps.executeUpdate();

 if (rowAffect > 0) {
 salida.println("<p>Usuario agregado con éxito</p>");
 String sqlSelect = "SELECT * FROM empleados";
 ps.executeQuery(sqlSelect);
 PreparedStatement psSelect =
 miconexion.prepareStatement(sqlSelect);
 // psSelect.setInt(1, Integer.parseInt(dniParametro));
 ResultSet misresultados = psSelect.executeQuery();
 // print all the employees
 while (misresultados.next()) {
 salida.println(
 "<TR><TD>" + misresultados.getInt("DNI") + "\n" +
 "<TD>" + misresultados.getString("nombre") + "\n" +
 "<TD>" + misresultados.getFloat("sueldo"));
 }
 } catch (Exception e) {
 salida.println(e);
 salida.println("</BODY></HTML>");
 }
}

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

Actividades Editor de textos 29 de ene 01:19

InsertServlet.java

```
ps.setFloat(3, Float.parseFloat(sueldo));
// execute the prepared query
int rowAffect = ps.executeUpdate();

if (rowAffect > 0) {
    salida.println("<p>Usuario agregado con éxito</p>");
    String sqlSelect = "SELECT * FROM empleados";
    ps.executeQuery(sqlSelect);
    PreparedStatement psSelect =
        miconexion.prepareStatement(sqlSelect);
    // psSelect.setInt(1, Integer.parseInt(dniParametro));
    ResultSet misresultados = psSelect.executeQuery();
    // print all the employees
    while (misresultados.next()) {
        salida.println(
            "<TR><TD>" + misresultados.getInt("DNI") + "\n" +
            "<TD>" + misresultados.getString("nombre") + "\n" +
            "<TD>" + misresultados.getFloat("sueldo"));
    }
} catch (Exception e) {
    salida.println(e);
    salida.println("</BODY></HTML>");
}
}
```

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

