	Computación	Docente: Diego Quisi Peralta
	Programación Aplicada	Período Lectivo: Marzo 2020 – Julio 2020



FORMATO DE INFORME DE PRÁCTICA DE LABORATORIO / TALLERES / CENTROS DE SIMULACIÓN – PARA ESTUDIANTES

CARRERA: Computación

ASIGNATURA: Programación Aplicada

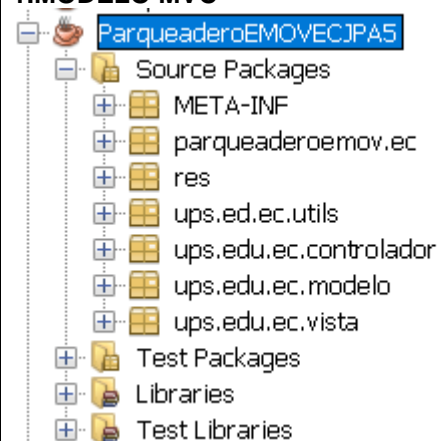
NRO. PRÁCTICA:

TÍTULO PRÁCTICA:

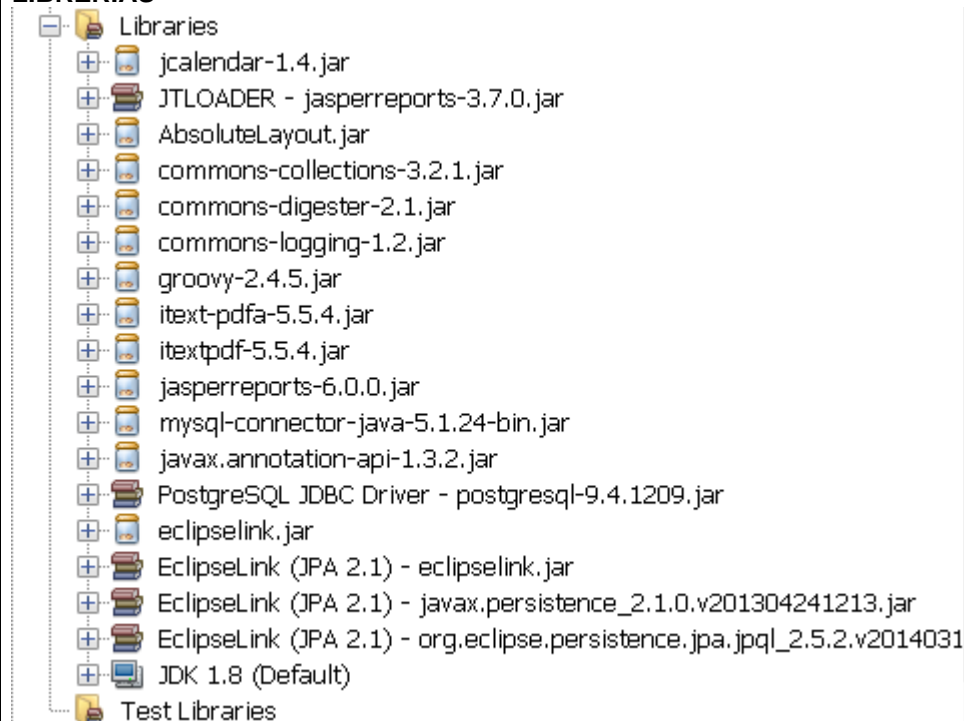
OBJETIVO ALCANZADO: Poder realizar las practicas con un éxito al %100 tras haber recibido las calses y temas necesarios para poder realizarlas y a su vez obtener resultados que esten a la perspectiva del docente a cargo.

ACTIVIDADES DESARROLLADAS

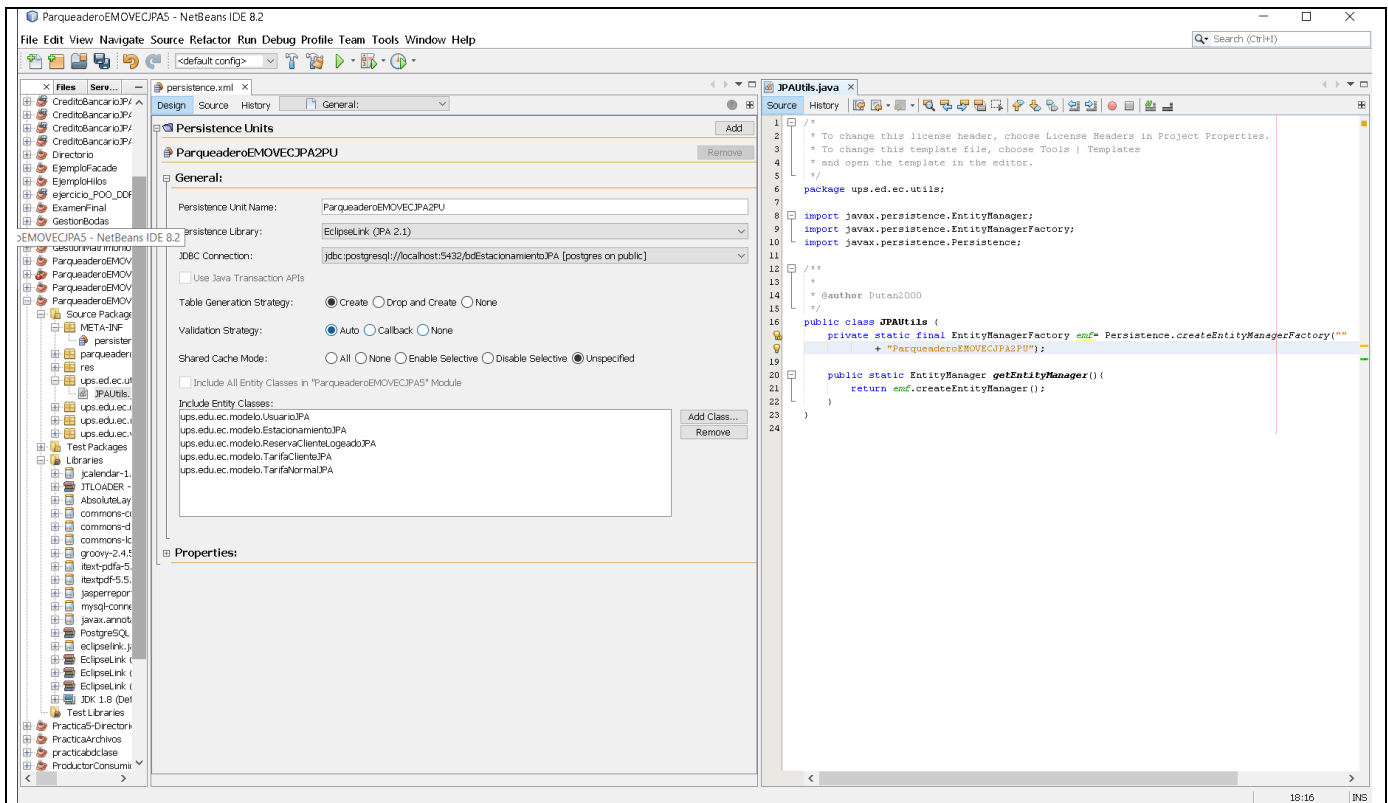
1.MODELO MVC



LIBRERIAS



CONEXIÓN BD



2.-----CONTROLADOR----- ABSTRAC CONTROLADOR

```
package ups.edu.ec.controlador;
```

```
import java.lang.reflect.ParameterizedType;
```

```
import java.lang.reflect.Type;
```

```
import java.util.List;
```

```
import javax.persistence.EntityManager;
```

```
import ups.ed.ec.utils.JPAUtils;
```

```
public abstract class AbstracControladorJPA<E> {
```

```
    private Class<E> clase;
```

```
    private EntityManager em;
```

```
    public AbstracControladorJPA() {
```

```
        Type t = getClass().getGenericSuperclass();
```

```
        ParameterizedType pt = (ParameterizedType) t;
```

```
        clase = (Class) pt.getActualTypeArguments()[0];
```

```
        this.em = JPAUtils.getEntityManager();
```

```
}

public AbstracControladorJPA(EntityManager em) {
    Type t = getClass().getGenericSuperclass();
    ParameterizedType pt = (ParameterizedType) t;
    clase = (Class) pt.getActualTypeArguments()[0];
    this.em = em;
}

public void crear(E objeto) {
    em.getTransaction().begin();
    em.persist(objeto);
    em.getTransaction().commit();
}

public void actualizar(E objeto) throws Exception {
    if (validarActualizar(objeto) == true) {
        em.getTransaction().begin();
        em.merge(objeto);
        em.getTransaction().commit();
    }
}

public void eliminar(E objeto) throws Exception {
    if (validarActualizar(objeto) == true) {
        em.getTransaction().begin();
        em.remove(em.merge(objeto));
        em.getTransaction().commit();
    }
}

public E leer(Object id) throws Exception {
```

```

    if (validarExistente(id) == true) {
        return (E) em.find(clase, id);
    } else {
        return null;
    }
}

public List<E> buscartodo() throws Exception {
    return em.createQuery("Select t from " + clase.getSimpleName() + " t").getResultList();
}

public abstract boolean validarActualizar(E objeto) throws Exception;

public abstract boolean validarExistente(Object id) throws Exception;


public Class<E> getClass() {
    return clase;
}

public void setClass(Class<E> clase) {
    this.clase = clase;
}

public EntityManager getEm() {
    return em;
}

public void setEm(EntityManager em) {
    this.em = em;
}
}
CONTROLADOR PARQUEADERO
/*

```

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*/

```
package ups.edu.ec.controlador;
```

```
import java.util.List;
```

```
import javax.persistence.Query;
```

```
import ups.edu.ec.modelo.Estacionamiento;
```

```
import ups.edu.ec.modelo.EstacionamientoJPA;
```

```
import ups.edu.ec.modelo.Usuario;
```

```
import ups.edu.ec.modelo.UsuarioJPA;
```

```
/**
```

```
*
```

```
* @author japch
```

```
*/
```

```
public class ControladorParqueaderoJPA extends AbstracControladorJPA<EstacionamientoJPA>{
```

```
    @Override
```

```
    public boolean validarActualizar(EstacionamientoJPA objeto) throws Exception {
```

```
        return false;
```

```
    }
```

```
    @Override
```

```
    public boolean validarExistente(Object id) throws Exception {
```

```
        return false;
```

```
    }
```

```

}
CONTROLADOR RESERVA CLIENTE
/*

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*/

package ups.edu.ec.controlador;
import ups.edu.ec.modelo.*;
/**
 *
 * @author japch
 */
public class ControladorReservaClienteLogJPA extends
AbstracControladorJPA<ReservaClienteLogeadoJPA>{

    @Override
    public boolean validarActualizar(ReservaClienteLogeadoJPA objeto) throws Exception {

        return true;
    }

    @Override
    public boolean validarExistente(Object id) throws Exception {

        return true;
    }

}
CONTROLADOR TARIFAS
/*

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```

```

*/
package ups.edu.ec.controlador;

import java.util.List;
import javax.persistence.Query;
import ups.edu.ec.modelo.TarifaCliente;
import ups.edu.ec.modelo.TarifaClienteJPA;

/**
 *
 * @author japch
 */
public class ControladorTarifasJPA extends AbstracControladorJPA<TarifaClienteJPA>{

    @Override
    public boolean validarActualizar(TarifaClienteJPA objeto) throws Exception {
        return true;
    }

    @Override
    public boolean validarExistente(Object id) throws Exception {

        return true;

    }
}
CONTROLADOR TARIFAS NORMAL
/*
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 */

```

```

package ups.edu.ec.controlador;

import java.util.List;
import javax.persistence.Query;
import ups.edu.ec.modelo.TarifaCliente;
import ups.edu.ec.modelo.TarifaNormal;
import ups.edu.ec.modelo.TarifaNormalJPA;

/**
 *
 * @author japch
 */
public class ControladorTarifasnormalJPA extends AbstracControladorJPA<TarifaNormalJPA>{

    @Override
    public boolean validarActualizar(TarifaNormalJPA objeto) throws Exception {
        return true;
    }

    @Override
    public boolean validarExistente(Object id) throws Exception {
        return true;
    }

}
CONTROLADOR USUARIO
/*
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 */
package ups.edu.ec.controlador;

```



```
import java.util.List;
import java.util.regex.Matcher;
import java.util.regex.Pattern;
import javax.persistence.Query;
import ups.edu.ec.modelo.Estacionamiento;
import ups.edu.ec.modelo.Usuario;
import ups.edu.ec.modelo.UsuarioJPA;

/**
 *
 * @author japch
 */
public class ControladorUsuarioJPA extends AbstracControladorJPA<UsuarioJPA>{

    public boolean validar(Usuario objeto) {
        return !objeto.getNombre().equals(objeto.getApellido());
    }

    public boolean verificarMail(String email) {
        // Patron para validar el email
        Pattern pattern = Pattern
            .compile("^([a-zA-Z0-9.!#$%&'*/+=?^_`{|}~-]+@((\\[[0-9]{1,3}\\.[0-9]{1,3}\\.[0-9]{1,3}\\.[0-9]{1,3}\\.|)([a-
zA-Z\\-0-9]+\\.)+[a-zA-Z]{2,}))$");

        Matcher mather = pattern.matcher(email);

        return mather.find();
    }

    @Override
    public boolean validarActualizar(UsuarioJPA objeto) throws Exception {

        String queryString = "Select * from UsuarioJPA as p "
```

```

        + "where p.cedula like ?";

        Query query = getEm().createNativeQuery(queryString, UsuarioJPA.class);
        List<UsuarioJPA> persona = query.setParameter(1, objeto.getCedula()).getResultList();

        if (persona.size() == 1) {
            return true;
        } else {
            return false;
        }
    }
}

```

@Override

```

public boolean validarExistente(Object id) throws Exception {

```

```

    String queryString = "Select * from UsuarioJPA as p "
        + "where p.cedula like ?";

    Query query = getEm().createNativeQuery(queryString, UsuarioJPA.class);
    List<UsuarioJPA> persona = query.setParameter(1, id).getResultList();

    if (persona.size() == 1) {
        return true;
    }else{
        return false;
    }
}

```

```

public boolean consultacedula(String cedula){

```

```

    Query consulta = getEm().createNamedQuery("consultaCedula");
    consulta.setParameter("cedula", cedula);

    return true;
}

```

```

}

```

3.-----MODELO-----

ESTACIONAMIENTO

/*

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*/

package ups.edu.ec.modelo;

import java.io.Serializable;

import javax.persistence.Column;

import javax.persistence.Entity;

import javax.persistence.GeneratedValue;

import javax.persistence.GenerationType;

import javax.persistence.Id;

/**

*

* @author japch

*/

@Entity

public class EstacionamientoJPA implements Serializable {

@Id

@Column

private int npuesto;

@Column

private String estado;

public int getNpuesto() {

return npuesto;

```

    }

    public void setNpuesto(int npuesto) {
        this.npuesto = npuesto;
    }

    public String getEstado() {
        return estado;
    }

    public void setEstado(String estado) {
        this.estado = estado;
    }

    @Override
    public String toString() {
        return "EstacionamientoJPA{" + "npuesto=" + npuesto + ", estado=" + estado + "}";
    }

}
RESERVA CLEINTE LOGEADO
/*
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 */
package ups.edu.ec.modelo;

import java.io.Serializable;
import javax.persistence.Column;
import javax.persistence.Entity;

```

```
import javax.persistence.GeneratedValue;
import javax.persistence.GenerationType;
import javax.persistence.Id;

/**
 *
 * @author japch
 */
@Entity
public class ReservaClienteLogeadoJPA implements Serializable {

    private static final long serialVersionUID = 1L;

    @Id
    @GeneratedValue(strategy = GenerationType.AUTO)
    private int nticket;

    @Column
    private String placa;

    @Column
    private String tipoReserva;

    @Column
    private String fechaIngreso;

    @Column
    private String fechaSalida;

    @Column
    private Double tarifa;

    @Column
```

```
private String cedula;
```

```
@Column
```

```
private String nombre;
```

```
@Column
```

```
private String telefono;
```

```
@Column
```

```
private int npuesto;
```

```
@Column
```

```
private Double total;
```

```
public int getNticket() {
```

```
    return nticket;
```

```
}
```

```
public void setNticket(int nticket) {
```

```
    this.nticket = nticket;
```

```
}
```

```
public String getPlaca() {
```

```
    return placa;
```

```
}
```

```
public void setPlaca(String placa) {
```

```
    this.placa = placa;
```

```
}
```

```
public String getTipoReserva() {
```

```
    return tipoReserva;
```

```
}

public void setTipoReserva(String tipoReserva) {
    this.tipoReserva = tipoReserva;
}

public String getFechaIngreso() {
    return fechaIngreso;
}

public void setFechaIngreso(String fechaIngreso) {
    this.fechaIngreso = fechaIngreso;
}

public String getFechaSalida() {
    return fechaSalida;
}

public void setFechaSalida(String fechaSalida) {
    this.fechaSalida = fechaSalida;
}

public Double getTarifa() {
    return tarifa;
}

public void setTarifa(Double tarifa) {
    this.tarifa = tarifa;
}
```

```
public String getCedula() {
```

```
    return cedula;
```

```
}
```

```
public void setCedula(String cedula) {
```

```
    this.cedula = cedula;
```

```
}
```

```
public String getNombre() {
```

```
    return nombre;
```

```
}
```

```
public void setNombre(String nombre) {
```

```
    this.nombre = nombre;
```

```
}
```

```
public String getTelefono() {
```

```
    return telefono;
```

```
}
```

```
public void setTelefono(String telefono) {
```

```
    this.telefono = telefono;
```

```
}
```

```
public int getNpuesto() {
```

```
    return npuesto;
```

```
}
```

```
public void setNpuesto(int npuesto) {
```

```
    this.npuesto = npuesto;
```

```
}
```



```
public Double getTotal() {  
    return total;  
}  
  
public void setTotal(Double total) {  
    this.total = total;  
}  
}  
TARIFAS CLIENTE  
/*  
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 */  
package ups.edu.ec.modelo;  
  
import java.io.Serializable;  
import javax.persistence.Column;  
import javax.persistence.Entity;  
import javax.persistence.GeneratedValue;  
import javax.persistence.GenerationType;  
import javax.persistence.Id;  
import javax.persistence.NamedQuery;  
  
/**  
 *  
 * @author japch  
 */  
@Entity  
//consultaid  
public class TarifaClienteJPA implements Serializable {  
    @Id  
    @Column  
    private int id;
```

@Column

private String tiempo;

@Column

private Double valor;

public int getId() {

return id;

}

public void setId(int id) {

this.id = id;

}

public String getTiempo() {

return tiempo;

}

public void setTiempo(String tiempo) {

this.tiempo = tiempo;

}

public Double getValor() {

return valor;

}

public void setValor(Double valor) {

this.valor = valor;

}

@Override

```
public String toString() {  
    return "TarifaNormalJPA{" + "id=" + id + ", tiempo=" + tiempo + ", valor=" + valor + '}';  
}  
  
}  
TARIFA NORMAL  
/*  
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 */  
package ups.edu.ec.modelo;  
  
import java.io.Serializable;  
import javax.persistence.Column;  
import javax.persistence.Entity;  
import javax.persistence.GeneratedValue;  
import javax.persistence.GenerationType;  
import javax.persistence.Id;  
  
/**  
 *  
 * @author japch  
 */  
@Entity  
public class TarifaNormalJPA implements Serializable {  
  
    @Id  
    @Column  
    private int id;  
  
    @Column  
    private String tiempo;
```

@Column

private Double valor;

```
public int getId() {  
    return id;  
}
```

```
public void setId(int id) {  
    this.id = id;  
}
```

```
public String getTiempo() {  
    return tiempo;  
}
```

```
public void setTiempo(String tiempo) {  
    this.tiempo = tiempo;  
}
```

```
public Double getValor() {  
    return valor;  
}
```

```
public void setValor(Double valor) {  
    this.valor = valor;  
}
```

@Override

```
public String toString() {  
    return "TarifaNormalJPA{" + "id=" + id + ", tiempo=" + tiempo + ", valor=" + valor + '}';  
}
```

```
}  
USUARIO  
  
/*  
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 */  
  
package ups.edu.ec.modelo;  
  
import java.io.Serializable;  
import javax.persistence.Column;  
import javax.persistence.Entity;  
import javax.persistence.GeneratedValue;  
import javax.persistence.GenerationType;  
import javax.persistence.Id;  
import javax.persistence.NamedQuery;  
  
/**  
 *  
 * @author japch  
 */  
@Entity  
@NamedQuery(name = "consultaCedula", query = "Select p from UsuarioJPA p where p.cedula = :cedula")  
public class UsuarioJPA implements Serializable {  
  
    @Id  
    @Column  
    private String cedula;  
  
    @Column  
    private String nombre;
```

@Column

private String apellido;

@Column

private String fechaDeNacimiento;

@Column

private String correo;

@Column

private String contraseña;

public String getCedula() {

return cedula;

}

public void setCedula(String cedula) {

this.cedula = cedula;

}

public String getNombre() {

return nombre;

}

public void setNombre(String nombre) {

this.nombre = nombre;

}

public String getApellido() {

return apellido;

}

```
public void setApellido(String apellido) {  
    this.apellido = apellido;  
}  
  
public String getFechaDeNacimiento() {  
    return fechaDeNacimiento;  
}  
  
public void setFechaDeNacimiento(String fechaDeNacimiento) {  
    this.fechaDeNacimiento = fechaDeNacimiento;  
}  
  
public String getCorreo() {  
    return correo;  
}  
  
public void setCorreo(String correo) {  
    this.correo = correo;  
}  
  
public String getContraseña() {  
    return contraseña;  
}  
  
public void setContraseña(String contraseña) {  
    this.contraseña = contraseña;  
}  
  
@Override  
public String toString() {  
    return "UsuarioJPA{" + "cedula=" + cedula + ", nombre=" + nombre + ", apellido=" + apellido + ",  
fechaDeNacimiento=" + fechaDeNacimiento + ", correo=" + correo + ", contrase\u00f1a=" + contraseña + '}';  
}
```

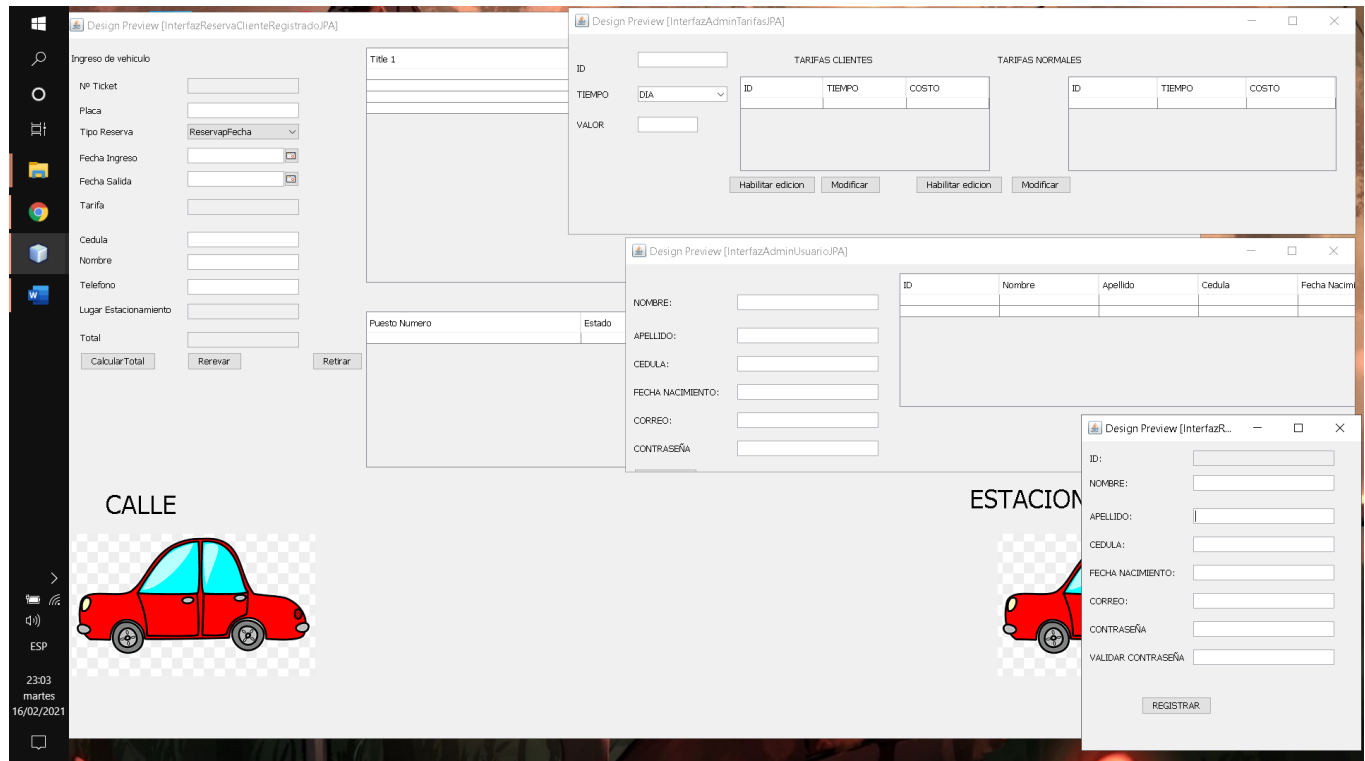
```

}

}

```

4.-----VISTA-----



INTERFAZ TARIFA ADMIN

/*

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*/

```
package ups.edu.ec.vista;
```

```
import java.io.IOException;
```

```
import java.util.logging.Level;
```

```
import java.util.logging.Logger;
```

```
import javax.swing.JOptionPane;
```

```
import javax.swing.event.ListSelectionEvent;
```

```
import javax.swing.event.ListSelectionListener;
```

```
import javax.swing.table.DefaultTableModel;
```



```
import ups.edu.ec.controlador.*;

import ups.edu.ec.modelo.TarifaCliente;
import ups.edu.ec.modelo.TarifaClienteJPA;
import ups.edu.ec.modelo.TarifaNormal;
import ups.edu.ec.modelo.TarifaNormalJPA;

/**
 *
 * @author japch
 */
public class InterfazAdminTarifasJPA extends javax.swing.JFrame {

    ControladorTarifasJPA controladorTarifas = new ControladorTarifasJPA();
    ControladorTarifasnormalJPA controladortarifasnormal = new ControladorTarifasnormalJPA();

    DefaultTableModel modeloClientes;
    DefaultTableModel modeloNormal;

    /**
     * Creates new form InterfazAdminTarifas
     */
    public InterfazAdminTarifasJPA() throws Exception {

        initComponents();
        crearMTarifaCliente();
        crearMTarifaNormal();
        btnmodificar1.setEnabled(false);
        btnmodificar2.setEnabled(false);

        modeloClientes =(DefaultTableModel) jTablecliente.getModel();
        this.listarDatosTarifaCliente();
        this.jTablecliente.getSelectionModel().addListSelectionListener(new ListSelectionListener() {
```

```

@Override

public void valueChanged(ListSelectionEvent lse) {
    try {
        cargarDatosTCliente(jTablecliente.getSelectedRow());
    } catch (Exception ex) {
        Logger.getLogger(InterfazAdminTarifasJPA.class.getName()).log(Level.SEVERE, null, ex);
    }
}

});

modeloNormal =(DefaultTableModel) jTablelnormal.getModel();
this.listarDatosNormal();
this.jTablelnormal.getSelectionModel().addListSelectionListener(new ListSelectionListener() {
@Override
public void valueChanged(ListSelectionEvent lse) {
    try {
        cargarDatosTNormal(jTablelnormal.getSelectedRow());
    } catch (Exception ex) {
        Logger.getLogger(InterfazAdminTarifasJPA.class.getName()).log(Level.SEVERE, null, ex);
    }
}

});

}

public void crearTCliente() throws Exception{

    int id = Integer.parseInt(txtid.getText());
    String tiempo= combotiempo.getSelectedItem().toString();
    Double valor = Double.parseDouble(txtvalor.getText());

    TarifaClienteJPA t = new TarifaClienteJPA();
    t.setId(id);

```

```
t.setTiempo(tiempo);

t.setValor(valor);

controladorTarifas.crear(t);

listarDatosTarifaCliente();
}

public void crearTNormal() throws Exception{

    int id= Integer.parseInt(txtid.getText());

    String tiempo= combotiempo.getSelectedItem().toString();

    String valor = txtvalor.getText();

    TarifaNormalJPA t = new TarifaNormalJPA();

    t.setId(id);

    t.setTiempo(tiempo);

    t.setValor(Double.parseDouble(valor));

    controladortarifasnomral.crear(t);

    listarDatosNormal();
}

private void crearMTarifaCliente(){
    try {
        modeloClientes = (new DefaultTableModel (
            null, new String []{
                "Id", "Tiempo", "Costo" }) {} );

        jTablecliente.setModel(modeloClientes);

    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, "Error");
    }
}

private void crearMTarifaNormal(){
    try {
```

```

        modeloNormal = (new DefaultTableModel (
            null, new String []{
                "Id", "Tiempo", "Costo"}) {} );
        jTableNormal.setModel(modeloNormal);

    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, "Error");
    }
}

private void listarDatosTarifaCliente() throws Exception{
    modeloClientes.setRowCount(0);
    for (TarifaClienteJPA t : controladorTarifas.buscartodo()) {
        String datos[] = {String.valueOf(t.getId()), t.getTiempo(), String.valueOf(t.getValor())};
        modeloClientes.addRow(datos);
    }
}

private void listarDatosNormal() throws Exception{
    modeloNormal.setRowCount(0);
    for (TarifaNormalJPA tn : controladorTarifasNormal.buscartodo()) {
        String datos[] = {String.valueOf(tn.getId()), tn.getTiempo(), String.valueOf(tn.getValor())};
        modeloNormal.addRow(datos);
    }
}

public void cargarDatosTCliente(int posicion) throws Exception {
    if (posicion >= 0) {
        TarifaClienteJPA tarifas = controladorTarifas.buscartodo().get(posicion);
        txtvalor.setText(tarifas.getValor()+"");
        txtid.setText(tarifas.getId()+"");
    }
}

```

```

}

public void cargarDatosTNormal(int posicion) throws Exception {
    if (posicion >= 0) {
        TarifaNormalJPA tarifaNormal = controladortarifasnomral.buscartodo().get(posicion);

        txtvalor.setText(tarifaNormal.getValor()+"");
        txtid.setText(tarifaNormal.getId()+"");
    }
}

/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    jScrollPane2 = new javax.swing.JScrollPane();
    jTableNormal = new javax.swing.JTable();
    jLabel1 = new javax.swing.JLabel();
    jLabel2 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTableCliente = new javax.swing.JTable();
    jLabel6 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    txtvalor = new javax.swing.JTextField();
    btnmodificar1 = new javax.swing.JButton();
    btnmodificar2 = new javax.swing.JButton();
    jButton3 = new javax.swing.JButton();
    combotiempo = new javax.swing.JComboBox<>();
    jLabel3 = new javax.swing.JLabel();

```

```
txtid = new javax.swing.JTextField();

jButton4 = new javax.swing.JButton();


setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);
addWindowListener(new java.awt.event.WindowAdapter() {
    public void windowClosing(java.awt.event.WindowEvent evt) {
        formWindowClosing(evt);
    }
});


jTablenormal.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jTablenormal.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null}
    },
    new String [] {
        "ID", "TIEMPO", "COSTO"
    }
));
jScrollPane2.setViewportViewView(jTablenormal);


jLabel1.setText("TARIFAS CLIENTES");


jLabel2.setText("TARIFAS NORMALES");


jTablecliente.setFont(new java.awt.Font("Tahoma", 0, 18)); // NOI18N
jTablecliente.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null}
    },
    new String [] {
        "ID", "TIEMPO", "COSTO"
```

```
}  
  
));  
jScrollPane1.setViewportViewView(jTablecliente);  
  
jLabel6.setText("TIEMPO");  
  
jLabel7.setText("VALOR");  
  
btnmodificar1.setText("Modificar");  
btnmodificar1.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        btnmodificar1ActionPerformed(evt);  
    }  
});  
  
btnmodificar2.setText("Modificar");  
btnmodificar2.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        btnmodificar2ActionPerformed(evt);  
    }  
});  
  
jButton3.setText("Habilitar edicion");  
jButton3.addActionListener(new java.awt.event.ActionListener() {  
    public void actionPerformed(java.awt.event.ActionEvent evt) {  
        jButton3ActionPerformed(evt);  
    }  
});  
  
combotiempo.setEditable(true);  
combotiempo.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] { "DIA", "NOCHE",  
"POR HORA" }));  
combotiempo.addActionListener(new java.awt.event.ActionListener() {
```

```

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            combotiempoActionPerformed(evt);

        }

    });

    jLabel3.setText("ID");

    jButton4.setText("Habilitar edicion");
    jButton4.addActionListener(new java.awt.event.ActionListener() {

        public void actionPerformed(java.awt.event.ActionEvent evt) {

            jButton4ActionPerformed(evt);

        }

    });

    javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
    getContentPane().setLayout(layout);

    layout.setHorizontalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup()

            .addGap(41, 41, 41)

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

                .addComponent(txtvalor, javax.swing.GroupLayout.PREFERRED_SIZE, 85, javax.swing.GroupLayout.PREFERRED_SIZE)

                .addComponent(combotiempo, 0, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

                .addComponent(txtid))

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

                .add(layout.createSequentialGroup()

                    .addGap(41, 41, 41)

                    .addComponent(jLabel6)

                    .addComponent(jLabel7)

                    .addComponent(jLabel3))

                .add(layout.createSequentialGroup()


                    .addGap(41, 41, 41)

                    .addComponent(jButton4)))

        .addContainerGap(100, true))

    .addContainerGap(100, true));

```


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```

        .addGap(18, 18, 18)

        .addComponent(jScrollPane1,      javax.swing.GroupLayout.PREFERRED_SIZE,      354,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(111, 111, 111)

        .addComponent(jScrollPane2,      javax.swing.GroupLayout.PREFERRED_SIZE,      380,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap(27, Short.MAX_VALUE))

        .addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup())

        .addGap(2, 2, 2)

        .addComponent(jButton3)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addComponent(btnmodificar1)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(jButton4)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

        .addComponent(btnmodificar2)

        .addGap(403, 403, 403))

        .addGroup(layout.createSequentialGroup())

        .addGap(95, 95, 95)

        .addComponent(jLabel1,      javax.swing.GroupLayout.PREFERRED_SIZE,      135,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(jLabel2,      javax.swing.GroupLayout.PREFERRED_SIZE,      126,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(381, 381, 381))))

);

layout.setVerticalGroup(

    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup())

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

                .addGroup(layout.createSequentialGroup())

                    .addGap(40, 40, 40)

```

```

        .addComponent(jLabel3)

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

            .addComponent(jLabel6)

            .addComponent(combotiempo,                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(21, 21, 21)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

            .addComponent(jLabel7)

            .addComponent(txtvalor,                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGroup(layout.createSequentialGroup())

        .addGap(25, 25, 25)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

            .addComponent(jLabel1)

            .addComponent(jLabel2)

            .addComponent(txtid,                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addComponent(jScrollPane1,    javax.swing.GroupLayout.PREFERRED_SIZE,    134,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addComponent(jScrollPane2,    javax.swing.GroupLayout.PREFERRED_SIZE,    134,
javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                .addComponent(btnmodificar1)

                .addComponent(jButton3))

            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                .addComponent(btnmodificar2)

                .addComponent(jButton4)))

        .addContainerGap(57, Short.MAX_VALUE))

    );

```

```
pack();  
} // </editor-fold>  
  
private void combotiempoActionPerformed(java.awt.event.ActionEvent evt) {  
    // TODO add your handling code here:  
}  
  
private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    btnmodificar1.setEnabled(true);  
    btnmodificar2.setEnabled(false);  
  
}  
  
private void formWindowClosing(java.awt.event.WindowEvent evt) {  
  
}  
  
private void btnmodificar1ActionPerformed(java.awt.event.ActionEvent evt) {  
  
    try {  
        String id0= txtid.getText();  
        int v= Integer.parseInt(id0);  
        String tiempo= combotiempo.getSelectedItem().toString();  
        String valor = txtvalor.getText();  
        TarifaClienteJPA tc = controladorTarifas.leer(v);  
  
        /* System.out.println("id "+tc.getId());  
        System.out.println("tiempo "+tc.getTiempo());  
        System.out.println("valor "+tc.getValor());*/
```

```

// tc.setId(v);

tc.setTiempo(tiempo);
tc.setValor(Double.parseDouble(valor));
controladorTarifas.actualizar(tc);
listarDatosTarifaCliente();
/*
tc.setId(Integer.parseInt(id0));
tc.setTiempo(tiempo);
tc.setValor(Double.parseDouble(valor));
controladorTarifas.actualizar(tc);
listarDatosTarifaCliente();
*/
} catch (Exception ex) {
    Logger.getLogger(InterfazAdminTarifasJPA.class.getName()).log(Level.SEVERE, null, ex);
}

}

private void btnmodificar2ActionPerformed(java.awt.event.ActionEvent evt) {

    try {
        String id0= txtid.getText();
        int v= Integer.parseInt(id0);
        String tiempo= combotiempo.getSelectedItem().toString();
        String valor = txtvalor.getText();
        TarifaNormalJPA tc = controladortarifasnomral.leer(v);

        tc.setTiempo(tiempo);
        tc.setValor(Double.parseDouble(valor));
    }
}

```

```

controladorTarifasnomral.actualizar(tc);

listarDatosTarifaCliente();

/*

tc.setId(Integer.parseInt(id0));

tc.setTiempo(tiempo);

tc.setValor(Double.parseDouble(valor));

controladorTarifas.actualizar(tc);

listarDatosTarifaCliente();

*/

} catch (Exception ex) {

    Logger.getLogger(InterfazAdminTarifasJPA.class.getName()).log(Level.SEVERE, null, ex);

}

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

    btnmodificar2.setEnabled(true);

    btnmodificar1.setEnabled(false);

}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {

    /* Set the Nimbus look and feel */

    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
     */
}

```

```

        try {
            for (javax.swing.UIManager.LookAndFeelInfo info :
                javax.swing.UIManager.getInstalledLookAndFeels()) {
                if ("Nimbus".equals(info.getName())) {
                    javax.swing.UIManager.setLookAndFeel(info.getClassName());
                    break;
                }
            }
        } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(InterfazAdminTarifasJPA.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

        } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(InterfazAdminTarifasJPA.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

        } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(InterfazAdminTarifasJPA.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);


        } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(InterfazAdminTarifasJPA.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

        }
    }
}
//</editor-fold>
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        try {
            new InterfazAdminTarifasJPA().setVisible(true);
        } catch (Exception ex) {
            Logger.getLogger(InterfazAdminTarifasJPA.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
}

```

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```

    }

    });

}

// Variables declaration - do not modify

private javax.swing.JButton btnmodificar1;
private javax.swing.JButton btnmodificar2;
private javax.swing.JComboBox<String> combotiempo;
private javax.swing.JButton jButton3;
private javax.swing.JButton jButton4;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JScrollPane jScrollPane1;
private javax.swing.JScrollPane jScrollPane2;
private javax.swing.JTable jTablecliente;
private javax.swing.JTable jTablenormal;
private javax.swing.JTextField txtid;
private javax.swing.JTextField txtvalor;

// End of variables declaration
}
TARIFA USUARIO ADMIN
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package ups.edu.ec.vista;

import java.io.IOException;
import java.util.logging.Level;

```

```

import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.event.ListSelectionEvent;
import javax.swing.event.ListSelectionListener;
import javax.swing.table.DefaultTableModel;
import ups.edu.ec.controlador.ControladorUsuario;
import ups.edu.ec.controlador.ControladorUsuarioJPA;
import ups.edu.ec.modelo.Usuario;
import ups.edu.ec.modelo.UsuarioJPA;
import static ups.edu.ec.vista.InterfazRegistroCliente.ruta;

/**
 *
 * @author japch
 */
public class InterfazAdminUsuarioJPA extends javax.swing.JFrame {
    ControladorUsuarioJPA controladorUsuario = new ControladorUsuarioJPA();
    DefaultTableModel tblusuario;

    /**
     * Creates new form InterfazAdminUsuario
     */
    public InterfazAdminUsuarioJPA() {
        try {
            initComponents();
            CrearModelo();

            tblusuario =(DefaultTableModel) jTable1.getModel();
            this.listarDatos();
            this.jtable1.getSelectionModel().addListSelectionListener(new ListSelectionListener() {
                @Override
                public void valueChanged(ListSelectionEvent lse) {

```



```

    try {
        cargarDatos(jtable1.getSelectedRow());
    } catch (Exception ex) {
        Logger.getLogger(InterfazAdminUsuarioJPA.class.getName()).log(Level.SEVERE, null, ex);
    }
}

});
} catch (Exception ex) {
    Logger.getLogger(InterfazAdminUsuarioJPA.class.getName()).log(Level.SEVERE, null, ex);
}
}

private void CrearModelo(){
    try {
        tblusuario = (new DefaultTableModel (
            null, new String []{
                "Nombre", "Apellido", "cedula", "fecha nacimiento", "correo", "contraseña"}) {} );
        jtable1.setModel(tblusuario);

    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, "Error");
    }
}

public void listarDatos() throws Exception {
    tblusuario.setRowCount(0);

    for (UsuarioJPA u : controladorUsuario.buscartodo()) {
        String          datos[]          =          {u.getNombre(),
u.getApellido(),u.getCedula(),u.getFechaDeNacimiento(),u.getCorreo(),u.getContraseña()};
        tblusuario.addRow(datos);
    }
}

public void cargarDatos(int id) throws Exception {
    if (id >= 0) {
        UsuarioJPA usuario = controladorUsuario.buscartodo().get(id);
    }
}

```

```

        txtnombre.setText(usuario.getNombre());
        txtapellido.setText(usuario.getApellido());
        txtcedula.setText(usuario.getCedula());
        txtfechanacimiento.setText(usuario.getFechaDeNacimiento());
        txtcorreo.setText(usuario.getCorreo());
        txtcontra.setText(usuario.getContraseña());
    }

}

public void actualizar() throws Exception{

    String nombre = txtnombre.getText();
    String apellido = txtapellido.getText();
    String cedula = txtcedula.getText();
    String fechanacimiento=txtfechanacimiento.getText();
    String correo = txtcorreo.getText();
    String contra=txtcontra.getText();
    UsuarioJPA u = new UsuarioJPA();
    u.setCedula(cedula);
    u.setApellido(apellido);
    u.setContraseña(contra);
    u.setCorreo(correo);
    u.setFechaDeNacimiento(fechanacimiento);
    u.setNombre(nombre);
    controladorUsuario.actualizar(u);

    listarDatos();
    txtapellido.setText("");
    txtcedula.setText("");
    txtcontra.setText("");
    txtcorreo.setText("");

```

```
txtfechanacimiento.setText("");  
txtnombre.setText("");  
}  
  
/**  
 * This method is called from within the constructor to initialize the form.  
 * WARNING: Do NOT modify this code. The content of this method is always  
 * regenerated by the Form Editor.  
 */  
@SuppressWarnings("unchecked")  
// <editor-fold defaultstate="collapsed" desc="Generated Code">  
private void initComponents() {  
  
    jScrollPane1 = new javax.swing.JScrollPane();  
    jTable1 = new javax.swing.JTable();  
    jLabel4 = new javax.swing.JLabel();  
    txtcontra = new javax.swing.JPasswordField();  
    jLabel6 = new javax.swing.JLabel();  
    txtcedula = new javax.swing.JTextField();  
    txtfechanacimiento = new javax.swing.JTextField();  
    jLabel5 = new javax.swing.JLabel();  
    jLabel7 = new javax.swing.JLabel();  
    txtcorreo = new javax.swing.JTextField();  
    txtnombre = new javax.swing.JTextField();  
    txtapellido = new javax.swing.JTextField();  
    jLabel3 = new javax.swing.JLabel();  
    jLabel1 = new javax.swing.JLabel();  
    jButton1 = new javax.swing.JButton();  
  
    setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);  
    addWindowListener(new java.awt.event.WindowAdapter() {  
        public void windowClosing(java.awt.event.WindowEvent evt) {
```

```
        formWindowClosing(evt);
    }
});

jtable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null, null, null, null},
        {null, null, null, null, null, null, null}
    },
    new String [] {
        "ID", "Nombre", "Apellido", "Cedula", "Fecha Nacimiento", "Correo", "Contraseña"
    }
));
jScrollPane1.setViewportView(jtable1);

jLabel4.setText("APELLIDO:");

txtcontra.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtcontraActionPerformed(evt);
    }
});

jLabel6.setText("CEDULA:");

jLabel5.setText("FECHA NACIMIENTO:");

jLabel7.setText("CORREO:");

jLabel3.setText("NOMBRE:");

jLabel1.setText("CONTRASEÑA");
```

```
jButton1.setText("Actualizar");

jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});
```

```
javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());  
getContentPane().setLayout(layout);  
layout.setHorizontalGroup(  
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(layout.createSequentialGroup()  
            .addGap(10, 10, 10)  
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
                .addGroup(layout.createSequentialGroup()  
                    .addComponent(jButton1)  
                    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 257, javax.swing.GroupLayout.PREFERRED_SIZE))  
                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                    .addComponent(jLabel5)  
                    .addComponent(jLabel7)  
                    .addGroup(layout.createSequentialGroup()  
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                            .addComponent(jLabel3)  
                            .addComponent(jLabel4)  
                            .addComponent(jLabel6))  
                        .addGap(86, 86, 86)  
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                            .addGroup(layout.createSequentialGroup()  
                                .addComponent(txtapellido, javax.swing.GroupLayout.PREFERRED_SIZE, 200,  
javax.swing.GroupLayout.PREFERRED_SIZE)
```

```

        .addComponent(txtnombre, javax.swing.GroupLayout.PREFERRED_SIZE, 200,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addComponent(txtcedula, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE)))

        .addGroup(layout.createSequentialGroup())

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 121,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(25, 25, 25)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
false)

        .addComponent(txtcontra, javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(txtcorreo, javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(txtfechanacimiento, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.PREFERRED_SIZE, 200, javax.swing.GroupLayout.PREFERRED_SIZE))))

        .addGap(30, 30, 30)

        .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 988,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap())
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addGroup(layout.createSequentialGroup()

        .addContainerGap()

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(layout.createSequentialGroup()

                .addGap(30, 30, 30)

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                    .addComponent(jLabel3)

                    .addComponent(txtnombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGap(25, 25, 25)

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                    .addComponent(jLabel4)

                    .addComponent(txtapellido, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

```

```

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel6)

            .addComponent(txtcedula,                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel5)

            .addComponent(txtfechanacimiento,        javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel7)

            .addComponent(txtcorreo,                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
            .addComponent(jLabel1,                    javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

            .addComponent(txtcontra,                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addComponent(jButton1)

        .addContainerGap()

        .addGroup(layout.createSequentialGroup()

            .addComponent(jScrollPane1,                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.PREFERRED_SIZE)

            .addGap(228, 228, 228)))

    );

    pack();
}

// </editor-fold>

private void txtcontraActionPerformed(java.awt.event.ActionEvent evt) {

```

```
// TODO add your handling code here:
```

```
}
```

```
private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
```

```
try {
```

```
    actualizar();
```

```
} catch (Exception ex) {
```

```
    Logger.getLogger(InterfazAdminUsuarioJPA.class.getName()).log(Level.SEVERE, null, ex);
```

```
}
```

```
}
```

```
private void formWindowClosing(java.awt.event.WindowEvent evt) {
```

```
}
```

```
/**
```

```
 * @param args the command line arguments
```

```
 */
```

```
public static void main(String args[]) {
```

```
    /* Set the Nimbus look and feel */
```

```
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
```

```
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
```

```
     * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
```

```
    */
```

```
    try {
```

```
        for (javax.swing.UIManager.LookAndFeelInfo info :
```

```
            javax.swing.UIManager.getInstalledLookAndFeels()) {
```

```
            if ("Nimbus".equals(info.getName())) {
```

```
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
```

```
                break;
```

```
            }
```

```
        }
```



```
} catch (ClassNotFoundException ex) {
```

```
java.util.logging.Logger.getLogger(InterfazAdminUsuarioJPA.class.getName()).log(java.util.logging.Level.  
SEVERE, null, ex);
```

```
} catch (InstantiationException ex) {
```

```
java.util.logging.Logger.getLogger(InterfazAdminUsuarioJPA.class.getName()).log(java.util.logging.Level.  
SEVERE, null, ex);
```

```
} catch (IllegalAccessException ex) {
```

```
java.util.logging.Logger.getLogger(InterfazAdminUsuarioJPA.class.getName()).log(java.util.logging.Level.  
SEVERE, null, ex);
```

```
} catch (javax.swing.UnsupportedLookAndFeelException ex) {
```

```
java.util.logging.Logger.getLogger(InterfazAdminUsuarioJPA.class.getName()).log(java.util.logging.Level.  
SEVERE, null, ex);
```

```
}
```

```
//</editor-fold>
```

```
//</editor-fold>
```

```
/* Create and display the form */
```

```
java.awt.EventQueue.invokeLater(new Runnable() {
```

```
    public void run() {
```

```
        new InterfazAdminUsuarioJPA().setVisible(true);
```

```
    }
```

```
});
```

```
}
```

```
// Variables declaration - do not modify
```

```
private javax.swing.JButton jButton1;
```

```
private javax.swing.JLabel jLabel1;
```

```
private javax.swing.JLabel jLabel3;
```

```
private javax.swing.JLabel jLabel4;
```

```
private javax.swing.JLabel jLabel5;
```

```
private javax.swing.JLabel jLabel6;
```

```

private javax.swing.JLabel jLabel7;

private javax.swing.JScrollPane jScrollPane1;

public javax.swing.JTable jTable1;

private javax.swing.JTextField txtapellido;

private javax.swing.JTextField txtcedula;

private javax.swing.JPasswordField txtcontra;

private javax.swing.JTextField txtcorreo;

private javax.swing.JTextField txtfechanacimiento;

private javax.swing.JTextField txtnombre;

// End of variables declaration
}
INTERFAZ REGISTRO CLIENTE
/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package ups.edu.ec.vista;

import com.mysql.jdbc.Connection;
import com.mysql.jdbc.Driver;
import com.mysql.jdbc.Statement;
import java.io.IOException;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.event.ListSelectionEvent;
import javax.swing.event.ListSelectionListener;
import javax.swing.plaf.basic.BasicListUI;
import javax.swing.table.DefaultTableModel;

```

```
import ups.edu.ec.controlador.ControladorUsuario;
import ups.edu.ec.controlador.ControladorUsuarioJPA;
import ups.edu.ec.modelo.Usuario;
import ups.edu.ec.modelo.UsuarioJPA;

/**
 *
 * @author japch
 */

public class InterfazRegistroClienteJPA extends javax.swing.JFrame {
    //ControladorUsuario controladorUsuario = new ControladorUsuario();
    ControladorUsuarioJPA cujpa= new ControladorUsuarioJPA();
    public static String ruta="BaseDatosUsuario";
    DefaultTableModel tblusuario;
    /**
     * Creates new form Usuario
     */
    public InterfazRegistroClienteJPA() {
        initComponents();
        // presentar();
        // CrearModelo();
    }
    /*No se puede registrar con el mismo correo*/
    public void verificarcedula(){

        if(cujpa.consultacedula(txtcedula.getText())){
            tomarDatosUsuario();
            JOptionPane.showMessageDialog(null, "Usuario creado exitosamente");
        }else if (!cujpa.consultacedula(txtcedula.getText())){
            JOptionPane.showMessageDialog(null, "Cedula ya existente");
        }
    }
}
```

```
}
```

```
}
```

```
/* private void CrearModelo(){  
    try {  
        tblusuario = (new DefaultTableModel (  
            null, new String []{  
                "Id", "Nombre", "Apellido", "cedula", "fecha nacimiento", "correo", "contraseña"}) {} );  
        jtable1.setModel(tblusuario);  
  
    } catch (Exception e) {  
        JOptionPane.showMessageDialog(null, "Error");  
    }  
}*/
```

```
/*public void presentar(){  
    DefaultTableModel modelo = new DefaultTableModel();  
    modelo.addColumn("Cedula");  
    modelo.addColumn("Nombre");  
    modelo.addColumn("Apellido");  
    modelo.addColumn("Fecha_nac");  
    modelo.addColumn("Correo");  
    modelo.addColumn("Contrae");  
    jtable1.setModel(modelo);  
    String datos[] = new String[6];  
    Connection base =null;  
    Statement at = null;  
    String url = "jdbc:postgresql://localhost:5432/bdEstacionamientoJPA";  
    try {  
        base = (Connection) DriverManager.getConnection(url,"bdEstacionamientoJPA","abc123");  
        at = (Statement) base .createStatement();  
        ResultSet rs = at.executeQuery("Select * From UsuarioJPA");
```

```
while(rs.next()){  
    datos[0] = rs.getString("cedula");  
    datos[2] = rs.getString("apellido");  
    datos[5] = rs.getString("contraseña");  
    datos[4] = rs.getString("correo");  
    datos[3] = rs.getString("fechanacimiento");  
    datos[1] = rs.getString("nombre");  
}  
rs.close();  
at.close();  
} catch (SQLException ex) {  
    Logger.getLogger(InterfazRegistroClienteJPA.class.getName()).log(Level.SEVERE, null, ex);  
}  
}*/  
/*  
public void listarDatos() {  
    tblusuario.setRowCount(0);  
    for (Usuario u : controladorUsuario.getLista()) {  
        String          datos[]          =          {String.valueOf(u.getId()),u.getNombre(),  
u.getApellido(),u.getCedula(),u.getFechanacimiento(),u.getCorreo(),u.getContraseña());  
        tblusuario.addRow(datos);  
    }  
}  
}  
  
public void cargarDatos(int posicion) {  
    if (posicion >= 0) {  
        Usuario usuario = controladorUsuario.getLista().get(posicion);  
        txtid.setText(usuario.getId()+"");  
        txtnombre.setText(usuario.getNombre());  
        txtapellido.setText(usuario.getApellido());  
        txtcedula.setText(usuario.getCedula());  
        txtfechanacimiento.setText(usuario.getFechanacimiento());  
        txtcorreo.setText(usuario.getCorreo());
```

```

        txtcontra.setText(usuario.getContraseña());
    }

}*/
/**
 * This method is called from within the constructor to initialize the form.
 * WARNING: Do NOT modify this code. The content of this method is always
 * regenerated by the Form Editor.
 */
@SuppressWarnings("unchecked")
// <editor-fold defaultstate="collapsed" desc="Generated Code">
private void initComponents() {

    txtnombre = new javax.swing.JTextField();
    txtapellido = new javax.swing.JTextField();
    jLabel3 = new javax.swing.JLabel();
    jLabel4 = new javax.swing.JLabel();
    jLabel6 = new javax.swing.JLabel();
    txtcedula = new javax.swing.JTextField();
    txtfechanacimiento = new javax.swing.JTextField();
    jLabel5 = new javax.swing.JLabel();
    jLabel7 = new javax.swing.JLabel();
    txtcorreo = new javax.swing.JTextField();
    jButton1 = new javax.swing.JButton();
    jLabel1 = new javax.swing.JLabel();
    txtcontra = new javax.swing.JPasswordField();
    jLabel2 = new javax.swing.JLabel();
    txtcontravalidar = new javax.swing.JPasswordField();
    jLabel8 = new javax.swing.JLabel();
    txtid = new javax.swing.JTextField();

```

```
setDefaultCloseOperation(javax.swing.WindowConstants.DISPOSE_ON_CLOSE);

addWindowListener(new java.awt.event.WindowAdapter() {
    public void windowClosing(java.awt.event.WindowEvent evt) {
        formWindowClosing(evt);
    }
});

jLabel3.setText("NOMBRE:");

jLabel4.setText("APELLIDO:");

jLabel6.setText("CEDULA:");

jLabel5.setText("FECHA NACIMIENTO:");

jLabel7.setText("CORREO:");

jButton1.setText("REGISTRAR");
jButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        jButton1ActionPerformed(evt);
    }
});

jLabel1.setText("CONTRASEÑA");

txtcontra.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        txtcontraActionPerformed(evt);
    }
});
```

[illegible]


```

        .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 141,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 121,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING,
false)

            .addComponent(txtcontra, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, 200, Short.MAX_VALUE)

            .addComponent(txtcorreo, javax.swing.GroupLayout.Alignment.LEADING)

            .addComponent(txtfechanacimiento, javax.swing.GroupLayout.Alignment.LEADING)

            .addComponent(txtcontravalidar))))

        .addGroup(layout.createSequentialGroup()

            .addGap(85, 85, 85)

            .addComponent(jButton1))

        .addGroup(layout.createSequentialGroup()

            .addGap(38, 38, 38)

            .addComponent(jLabel8))

        .addGap(38, 38, 38))

    );

    layout.setVerticalGroup(

        layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

            .addGroup(layout.createSequentialGroup()

                .addGap(13, 13, 13)

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                    .addComponent(jLabel8)

                    .addComponent(txtid, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGap(13, 13, 13)

                .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

                    .addComponent(jLabel3)

                    .addComponent(txtnombre, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

                .addGap(25, 25, 25)
    
```

```

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

            .addComponent(jLabel4)

            .addComponent(txtapellido,                                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

            .addComponent(jLabel6)

            .addComponent(txtcedula,                                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

            .addComponent(jLabel5)

            .addComponent(txtfechanacimiento,                        javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

            .addComponent(jLabel7)

            .addComponent(txtcorreo,                                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

            .addComponent(jLabel1,                                javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

            .addComponent(txtcontra,                                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(18, 18, 18)

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

            .addComponent(jLabel2,                                javax.swing.GroupLayout.DEFAULT_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

            .addComponent(txtcontravalidar,                        javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(45, 45, 45)

        .addComponent(jButton1)

        .addGap(51, 51, 51))

    );

```

```
pack();
} // </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {
//tomarDatosUsuario();
verificarcedula();
}

private void formWindowClosing(java.awt.event.WindowEvent evt) {
/*
try {
    controladorUsuario.guardarDatos(ruta);
} catch (IOException ex) {
    Logger.getLogger(InterfazRegistroClienteJPA.class.getName()).log(Level.SEVERE, null, ex);
}
*/
}

private void txtcontraActionPerformed(java.awt.event.ActionEvent evt) {
    // TODO add your handling code here:
}

/**
 * @param args the command line arguments
 */
public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
    * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
}
```

```

try {
    for (javax.swing.UIManager.LookAndFeelInfo info :
        javax.swing.UIManager.getInstalledLookAndFeels()) {
        if ("Nimbus".equals(info.getName())) {
            javax.swing.UIManager.setLookAndFeel(info.getClassName());
            break;
        }
    }
} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(InterfazRegistroClienteJPA.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(InterfazRegistroClienteJPA.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(InterfazRegistroClienteJPA.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(InterfazRegistroClienteJPA.class.getName()).log(java.util.logging.Level
.SEVERE, null, ex);

    }
}
//</editor-fold>
//</editor-fold>
//</editor-fold>
//</editor-fold>
//</editor-fold>
//</editor-fold>
//</editor-fold>
//</editor-fold>

/* Create and display the form */
java.awt.EventQueue.invokeLater(new Runnable() {

```

```
public void run() {  
    new InterfazRegistroClienteJPA().setVisible(true);  
}  
});  
}  
  
public void tomarDatosUsuario(){  
    System.out.println("entraentomardatos");  
  
    String nombre = txtnombre.getText();  
    String apellido = txtapellido.getText();  
    String cedula = txtcedula.getText();  
    String fechanacimiento=txtfechanacimiento.getText();  
    String correo = txtcorreo.getText();  
    String contra=txtcontra.getText();  
    String contra2=txtcontravalidar.getText();  
  
    if(!nombre.isEmpty()){  
        if(!apellido.isEmpty()){  
            if(!cedula.isEmpty()){  
                if(!fechanacimiento.isEmpty()){  
                    if(!correo.isEmpty()){  
                        if(!contra.isEmpty()){  
                            if( contra.equals(contra2)){  
                                if(cujpa.verificarMail(correo)==true){  
  
                                    UsuarioJPA u = new UsuarioJPA();  
                                    u.setCedula(cedula);  
                                    u.setNombre(nombre);  
                                    u.setApellido(apellido);  
                                    u.setCorreo(correo);  
                                    u.setFechaDeNacimiento(fechanacimiento);  
                                    u.setContraseña(contra);
```

```

        culpa.crear(u);

        limpiar();
    }else{

        JOptionPane.showMessageDialog(null, "Correo invalido Ejemplo:
ejem123@gmail.com");

    }
    }else{
        txtcontravalidar.setText("");
        JOptionPane.showMessageDialog(null, "Las contraseñas no son iguales");
    }
    }else{
        JOptionPane.showMessageDialog(null, "Revisar!! un campo se encuentra vacio");
    }
    }else{
        JOptionPane.showMessageDialog(null, "Revisar!! un campo se encuentra vacio");
    }
    }

    }else{
        JOptionPane.showMessageDialog(null, "Revisar!! un campo se encuentra vacio");
    }
    }

    }else{
        JOptionPane.showMessageDialog(null, "Revisar!! un campo se encuentra vacio");
    }
    }

    }else{
        JOptionPane.showMessageDialog(null, "Revisar!! un campo se encuentra vacio");
    }
    }
}

```

```
}

public void limpiar(){
txtnombre.setText("");
txtapellido.setText("");
txtcedula.setText("");
txtfechanacimiento.setText("");
txtcorreo.setText("");
txtcontra.setText("");
txtcontravalidar.setText("");
}


// Variables declaration - do not modify
private javax.swing.JButton jButton1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
private javax.swing.JLabel jLabel8;
private javax.swing.JTextField txtapellido;
private javax.swing.JTextField txtcedula;
private javax.swing.JPasswordField txtcontra;
private javax.swing.JPasswordField txtcontravalidar;
private javax.swing.JTextField txtcorreo;
private javax.swing.JTextField txtfechanacimiento;
private javax.swing.JTextField txtid;
private javax.swing.JTextField txtnombre;

// End of variables declaration
}
```

INTERFAZ RESERVA CLIENTE REGISTRADO

```
package ups.edu.ec.vista;

import com.itextpdf.text.Document;
import com.itextpdf.text.Paragraph;
import com.itextpdf.text.pdf.PdfPCell;
import com.itextpdf.text.pdf.PdfPTable;
import com.itextpdf.text.pdf.PdfWriter;
import com.toedter.calendar.JDateChooser;
import java.awt.print.PrinterException;
import java.awt.print.PrinterJob;
import java.io.FileOutputStream;
import java.io.IOException;
import java.text.DateFormat;
import java.util.ArrayList;
import java.util.Calendar;
import java.util.Date;
import java.util.HashMap;
import java.util.List;
import java.util.Map;
import java.util.logging.Level;
import java.util.logging.Logger;
import javax.swing.JOptionPane;
import javax.swing.event.ListSelectionEvent;
import javax.swing.event.ListSelectionListener;
import javax.swing.table.DefaultTableModel;
import ups.edu.ec.controlador.*;
import ups.edu.ec.modelo.Estacionamiento;
import ups.edu.ec.modelo.ReservaClienteLogeado;
import ups.edu.ec.modelo.TarifaCliente;
import static ups.edu.ec.vista.InterfazAdminparqueadero.ruta;
import java.util.HashMap;
import net.sf.jasperreports.engine.JREmptyDataSource;
```


	Computación	Docente: Diego Quisi Peralta
	Programación Aplicada	Período Lectivo: Marzo 2020 – Julio 2020

```

import net.sf.jasperreports.engine.JRException;
import net.sf.jasperreports.engine.JasperFillManager;
import net.sf.jasperreports.engine.JasperPrint;
import net.sf.jasperreports.engine.JasperReport;
import net.sf.jasperreports.engine.data.JRBeanCollectionDataSource;
import net.sf.jasperreports.engine.util.JRLoader;
import net.sf.jasperreports.view.JasperViewer;
import ups.edu.ec.modelo.EstacionamientoJPA;
import ups.edu.ec.modelo.ReservaClienteLogeadoJPA;
import ups.edu.ec.modelo.TarifaClienteJPA;

/**
 *
 * @author japch
 */
public class InterfazReservaClienteRegistradoJPA extends javax.swing.JFrame {

    ControladorReservaClienteLogJPA clienteLog = new ControladorReservaClienteLogJPA();
    ControladorParqueaderoJPA controladorParqueadero = new ControladorParqueaderoJPA();
    ControladorTarifasJPA controladorTarifas = new ControladorTarifasJPA();
    DefaultTableModel tblreservaciencienteLog ;

    DefaultTableModel modelo;

    int filas;

    String libre="Libre";

    DefaultTableModel modeloticket= new DefaultTableModel();
    DateFormat df = DateFormat.getDateInstance();

    public String RFecha="ReservapFecha";
    public String RDia="ReservapDia";
    public String RNoche="ReservapNoche";
    public String RHora="ReservapHora";

```

```

/**
 * Creates new form Usuario
 */
public InterfazReservaClienteRegistradoJPA() throws Exception {
    initComponents();
    CrearModelo();
    CrearModelo2();
    btnreservar.setEnabled(false);
    dateinicio.setEnabled(true);
    datefin.setEnabled(true);
    // btnimprimir.setEnabled(false);
    invisible();

    tblreservaclienteLog=(DefaultTableModel) jTable1.getModel();
    this.listarDatos();
    this.jtable1.getSelectionModel().addListSelectionListener(new ListSelectionListener() {
        @Override
        public void valueChanged(ListSelectionEvent lse) {
            try {
                cargarDatos(jtable1.getSelectedRow());
            } catch (Exception ex) {
                Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE,
null, ex);
            }
        }
    });

    modelo=(DefaultTableModel) jTablepuestoyestado.getModel();
    try {
        this.listarDatos2();
    }
}

```

```

    } catch (Exception ex) {
        Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE, null,
ex);
    }
    this.jTablepuestoyestado.getSelectionModel().addListSelectionListener(new ListSelectionListener() {
        @Override
        public void valueChanged(ListSelectionEvent lse) {
            try {
                //Serivara para seleccionar uff
                cargarDatos2(jTablepuestoyestado.getSelectedRow());
            } catch (Exception ex) {
                Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE, null, ex);
            }
        }
    });
}

public void verificarestadolugar() throws Exception{
    boolean encontrado=false;
    String inpuesto=txtlugarestacionamiento.getText();
    int in= Integer.parseInt(inpuesto);

    for (int x = 0; x < controladorParqueadero.buscartodo().size(); x++) {
        EstacionamientoJPA p = controladorParqueadero.buscartodo().get(x);
        if (p.getNpuesto()==in && p.getEstado().equals(libre)) {
            encontrado=true;
            break;
        }
    }
    if(encontrado){
        Estacionarse estacionarse = new Estacionarse(jbutoncar, 100);
        estacionarse.start();
    }
}

```

```

        JOptionPane.showMessageDialog(null, "Lugar del parqueadero ocupada con exito");
        tomarDartos();

    }else{

        JOptionPane.showMessageDialog(null, "Lugar ya ocupado escoger otro lugar ");
    }
}

public void invisible(){

    jbutoncar.setVisible(false);
    txtcalle.setVisible(false);
    txtestacionamiento.setVisible(false);
    txtestacionamiento.setVisible(false);
    jbutoncar2.setVisible(false);
}

public void cargarDatos2(int posicion) throws Exception {
    if (posicion >= 0) {
        EstacionamientoJPA estacionamiento = controladorParqueadero.buscartodo().get(posicion);
        txtlugarestacionamiento.setText(estacionamiento.getNpuesto()+"" );
    }
}

public void listarDatos2() throws Exception {
    modelo.setRowCount(0);
    for (EstacionamientoJPA e : controladorParqueadero.buscartodo()) {
        String datos[] = {String.valueOf(e.getNpuesto()),e.getEstado()};
        modelo.addRow(datos);
    }
}

private void CrearModelo2(){

```

```
try {  
    modelo = (new DefaultTableModel (  
        null, new String []{  
            "Puesto Numero", "Estado"}) {} );  
    jTablepuestoyestado.setModel(modelo);  
  
} catch (Exception e) {  
    JOptionPane.showMessageDialog(null, "Error");  
}  
}  
  
public void estadoocupado() throws Exception{  
  
    String cambioaocupado="ocupado";  
    String cambioalibre="Libre";  
  
    //controladorParqueadero.actualizar(Integer.valueOf(txtlugarestacionamiento.getText()),  
cambioaocupado);  
  
    EstacionamientoJPA e = new EstacionamientoJPA();  
    e.setNpuesto(Integer.parseInt(txtlugarestacionamiento.getText()));  
    e.setEstado(cambioaocupado);  
    controladorParqueadero.actualizar(e);  
  
}  
  
public void tomarDartos() throws Exception{  
  
    String placa = txtplaca.getText();  
    String treserva= combotiporeserva.getSelectedItem().toString();  
    String fIngreso= df.format(dateinicio.getDate());  
    String fSalida= df.format(datefin.getDate());  
    String tarifa= txttarifa.getText();  
    Double tarifad= Double.parseDouble(tarifa);  
    String cedula= txtcedula.getText();  
    String nombre=txtnombre.getText();
```

```

String telefono=txttelefono.getText();

String lugar = txtlugarestacionamiento.getText();

String totald= txttotal.getText();

Double totalpagar=Double.parseDouble(totald);

//IF PARA RESERVAR POR FECHAS SE CALCULARA POR HORA


if(!lugar.isEmpty()&&!tarifa.isEmpty()&&!cedula.isEmpty()&&!nombre.isEmpty()&&!telefono.isEmpty()&&!totald.isEmpty()){

    int lugari=Integer.parseInt(lugar);

    // ReservaClienteLogeado rcl = new ReservaClienteLogeado(nticket, placa, treserva, flngreso, fSalida,
    tarifad, cedula, nombre, telefono, lugari,totalpagar);

    ReservaClienteLogeadoJPA rcl = new ReservaClienteLogeadoJPA();

    rcl.setFechaIngreso(fIngreso);

    rcl.setCedula(cedula);

    rcl.setFechaSalida(fSalida);

    rcl.setNombre(nombre);

    rcl.setTipoReserva(treserva);

    rcl.setNpuesto(lugari);

    rcl.setPlaca(placa);

    rcl.setTarifa(tarifad);

    rcl.setTelefono(telefono);

    rcl.setTotal(totalpagar);

    txnumerito.setText(lugar);

    clienteLog.crear(rcl);


    listarDatos();

    try {

        estadoocupado();

    } catch (Exception ex) {

        Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE,
null, ex);

    }

    btnreservar.setEnabled(false);

```

```
btncalcular.setEnabled(false);

//btnimprimir.setEnabled(true);

try {
    listarDatos2();

    // limpiar();
} catch (Exception ex) {
    Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE,
null, ex);
}
}else{
JOptionPane.showMessageDialog(null, "Llenar los campos faltantes");
}
}

public void calcularTfechas(JDateChooser dateinicio,JDateChooser datefin) throws Exception{
    if(this.dateinicio.getDate() != null && this.datefin.getDate() != null){
        Calendar inicio =dateinicio.getCalendar();
        Calendar fin = this.datefin.getCalendar();
        int dias=-1;
        while(inicio.before(fin) || inicio.equals(fin)){
            dias++;
            inicio.add(Calendar.DATE, 1);
        }
        String thora="POR HORA";
        for (int i = 0; i < controladorTarifas.buscartodo().size(); i++) {
            TarifaClienteJPA tc = controladorTarifas.buscartodo().get(i);
            if(tc.getTiempo().equals(thora)){
                System.out.println("Entra iF");
                txttarifa.setText(tc.getValor()+"");
                Double ve=Double.parseDouble(tc.getValor()+"");
                //EL VALOR POR HORA SE CONTABILIZIA LAS 24HRS
                Double totalpagar0=(ve*(dias*24));
```

```

        Double totalpagar=(ve*(dias*24))*0.20;

        Double totalpagar2=totalpagar0-totalpagar;

        txttotal.setText(totalpagar2+"");

    }

}

}

}

public void calcularTDia(JDateChooser dateinicio,JDateChooser datefin) throws Exception{
    if(this.dateinicio.getDate() != null && this.datefin.getDate() != null){

        Calendar inicio =dateinicio.getCalendar();

        Calendar fin = this.datefin.getCalendar();

        int dias=-1;

        while(inicio.before(fin) || inicio.equals(fin)){

            dias++;

            inicio.add(Calendar.DATE, 1);

        }

        String tdia="DIA";

        for (int i = 0; i < controladorTarifas.buscartodo().size(); i++) {

            TarifaClienteJPA tc = controladorTarifas.buscartodo().get(i);

            if(tc.getTiempo().equals(tdia)){

                System.out.println("Entra iF");

                txttarifa.setText(tc.getValor()+"");

                Double ve=Double.parseDouble(tc.getValor()+"");

                //El valor de dia es de 6:00 a12 y2:18:00

                Double totalpagar=ve*dias;

                Double totalapagar1=(ve*dias)*0.15;

                Double totalapagar2=totalpagar-totalapagar1;

                txttotal.setText(totalapagar2+"");

            }

        }

    }
}

```



```
}  
  
}  
  
public void calcularTNoche(JDateChooser dateinicio,JDateChooser datefin) throws Exception{  
    if(this.dateinicio.getDate() != null && this.datefin.getDate() != null){  
        Calendar inicio =dateinicio.getCalendar();  
        Calendar fin = this.datefin.getCalendar();  
        int dias=-1;  
        while(inicio.before(fin) || inicio.equals(fin)){  
            dias++;  
            inicio.add(Calendar.DATE, 1);  
        }  
        String tdia="NOCHE";  
        for (int i = 0; i < controladorTarifas.buscartodo().size(); i++) {  
            TarifaClienteJPA tc = controladorTarifas.buscartodo().get(i);  
  
            if(tc.getTiempo().equals(tdia)){  
                System.out.println("Entra iF");  
                txttarifa.setText(tc.getValor()+ "");  
                Double ve=Double.parseDouble(tc.getValor()+ "");  
                //EL TIEMPO DE NOCHE COMIENZA DE 12:00 A 6:00  
                Double totalpagar=ve*dias;  
                Double totalpagar1=(ve*dias)*0.15;  
                Double totalpagar2=totalpagar-totalpagar1;  
                txttotal.setText(totalpagar2+ ""); }  
            }  
        }  
    }  
  
private int calcularTiempo(Date flnicio, Date fFin) {  
    int k=0;  
    long iniciar=flnicio.getTime();
```

```

        long fi=fFin.getTime();

        k=(int) (Math.abs(fi-iniciar))/(1000*64);


        return k;

    }

    public void cargarDatosTCliente(int posicion) throws Exception {

        if (posicion >= 0) {

            TarifaClienteJPA tarifas = controladorTarifas.buscartodo().get(posicion);

            txttarifa.setText(tarifas.getValor()+"");

        }

    }

```

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

```

private void initComponents() {

    jLabel1 = new javax.swing.JLabel();
    jScrollPane1 = new javax.swing.JScrollPane();
    jTable1 = new javax.swing.JTable();
    jScrollPane2 = new javax.swing.JScrollPane();
    jTablepuestoyestado = new javax.swing.JTable();
    imprimir1 = new ups.edu.ec.vista.imprimir();
    btnreservar = new javax.swing.JButton();
    btncalcular = new javax.swing.JButton();
    txtnombre = new javax.swing.JTextField();
    txtlugarestacionamiento = new javax.swing.JTextField();
    txttelefono = new javax.swing.JTextField();
    jLabel8 = new javax.swing.JLabel();
    txttotal = new javax.swing.JTextField();
    jLabel7 = new javax.swing.JLabel();

```

```

jLabel9 = new javax.swing.JLabel();
jLabel10 = new javax.swing.JLabel();
jLabel6 = new javax.swing.JLabel();
txtcedula = new javax.swing.JTextField();
txnticket = new javax.swing.JTextField();
txtplaca = new javax.swing.JTextField();
jLabel11 = new javax.swing.JLabel();
combotiporeserva = new javax.swing.JComboBox<>();
jLabel12 = new javax.swing.JLabel();
dateinicio = new com.toedter.calendar.JDateChooser();
datefin = new com.toedter.calendar.JDateChooser();
jLabel2 = new javax.swing.JLabel();
jLabel3 = new javax.swing.JLabel();
jLabel4 = new javax.swing.JLabel();
jLabel5 = new javax.swing.JLabel();
txttarifa = new javax.swing.JTextField();
txtestacionamiento = new javax.swing.JLabel();
txtcalle = new javax.swing.JLabel();
jbuttoncar = new javax.swing.JButton();
txnumerito = new javax.swing.JLabel();
jToggleButton1 = new javax.swing.JToggleButton();
jbuttoncar2 = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT_ON_CLOSE);
addWindowListener(new java.awt.event.WindowAdapter() {
    public void windowClosing(java.awt.event.WindowEvent evt) {
        formWindowClosing(evt);
    }
});

jLabel1.setText("Ingreso de vehiculo");

```

```

jtable1.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null},
        {null, null, null, null}
    },
    new String [] {
        "Title 1", "Title 2", "Title 3", "Title 4"
    }
));
jScrollPane1.setViewportViewView(jtable1);

jTablepuestoyestado.setModel(new javax.swing.table.DefaultTableModel(
    new Object [][] {
        {null, null}
    },
    new String [] {
        "Puesto Numero", "Estado"
    }
));
jTablepuestoyestado.addMouseListener(new java.awt.event.MouseAdapter() {
    public void mouseClicked(java.awt.event.MouseEvent evt) {
        jTablepuestoyestadoMouseClicked(evt);
    }
});
jScrollPane2.setViewportViewView(jTablepuestoyestado);

btnreservar.setText("Rerevar");
btnreservar.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        btnreservarActionPerformed(evt);
    }
});

```

```

    }
    });

    btncalcular.setText("CalcularTotal");
    btncalcular.addActionListener(new java.awt.event.ActionListener() {
        public void actionPerformed(java.awt.event.ActionEvent evt) {
            btncalcularActionPerformed(evt);
        }
    });

```

```
txtlugarestacionamiento.setEditable(false);
```

```
jLabel8.setText("Total");
```

```
txttotal.setEditable(false);
```

```
jLabel7.setText("Nombre");
```

```
jLabel9.setText("Telefono");
```

```
jLabel10.setText("Lugar Estacionamiento");
```

```
jLabel6.setText("Cedula");
```

```
txnticket.setEditable(false);
```

```
jLabel11.setText("Tipo Reserva");
```

```

combotiporeserva.setModel(new javax.swing.DefaultComboBoxModel<>(new String[] {
    "ReservapFecha", "ReservapDia", "ReservapNoche", "ReservapHora" }));


```

```

combotiporeserva.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        combotiporeservaActionPerformed(evt);
    }
});

```

```
}  
});  
  
jLabel12.setText("Fecha Salida");  
  
datefin.addMouseListener(new java.awt.event.MouseAdapter() {  
    public void mouseClicked(java.awt.event.MouseEvent evt) {  
        datefinMouseClicked(evt);  
    }  
});  
  
jLabel2.setText("Nº Ticket");  
  
jLabel3.setText("Placa");  
  
jLabel4.setText("Fecha Ingreso");  
  
jLabel5.setText("Tarifa");  
  
txttarifa.setEditable(false);  
  
javax.swing.GroupLayout imprimir1Layout = new javax.swing.GroupLayout(imprimir1);  
imprimir1.setLayout(imprimir1Layout);  
imprimir1Layout.setHorizontalGroup(  
    imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(imprimir1Layout.createSequentialGroup()  
            .addGap(60, 60, 60)  
            .addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
                .addComponent(jLabel2,  
                    javax.swing.GroupLayout.PREFERRED_SIZE,  
                    javax.swing.GroupLayout.PREFERRED_SIZE)
```

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```

        .addComponent(jLabel3)

        .addComponent(jLabel11)

        .addComponent(jLabel4)

        .addComponent(jLabel12)

        .addComponent(jLabel5))

    .addGap(71, 71, 71)

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)
    .addComponent(combotiporeserva, javax.swing.GroupLayout.Alignment.LEADING, 0, 158,
Short.MAX_VALUE)
    .addComponent(txtplaca, javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(txnticket, javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(dateinicio, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(datefin, javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)
    .addComponent(txttarifa, javax.swing.GroupLayout.Alignment.LEADING)))
    .addGroup(imprimir1Layout.createSequentialGroup())

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel6)
    .addComponent(jLabel9)
    .addComponent(jLabel10)
    .addComponent(jLabel7)
    .addComponent(jLabel8)
    .addComponent(btn calcular))
    .addGap(23, 23, 23)

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(btnreservar)
    .addComponent(txtnombre)
    .addComponent(txtcedula)
    .addComponent(txttelefono)
    .addComponent(txtlugarestacionamiento, javax.swing.GroupLayout.Alignment.TRAILING)

```

```
.addComponent(txttotal))))  
    .addContainerGap()  
);  
imprimir1Layout.setVerticalGroup(  
    imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)  
        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,  
            imprimir1Layout.createSequentialGroup()  
                .addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
                    .addGroup(imprimir1Layout.createSequentialGroup()  
                        .addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)  
                            .addGroup(imprimir1Layout.createSequentialGroup()  
                                .addComponent(jLabel2, javax.swing.GroupLayout.PREFERRED_SIZE, 14,  
                                    javax.swing.GroupLayout.PREFERRED_SIZE)  
                                .addComponent(txnticket, javax.swing.GroupLayout.PREFERRED_SIZE,  
                                    javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
                            .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED))  
                        .addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
                            .addComponent(jLabel3)  
                            .addComponent(txtplaca, javax.swing.GroupLayout.PREFERRED_SIZE,  
                                javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
                        .addGap(8, 8, 8)  
                    .addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)  
                        .addComponent(jLabel11)  
                        .addComponent(combopareserva, javax.swing.GroupLayout.PREFERRED_SIZE,  
                            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
                        .addGap(18, 18, 18)  
                        .addComponent(jLabel4)  
                        .addComponent(dateinicio, javax.swing.GroupLayout.PREFERRED_SIZE,  
                            javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))  
                        .addGap(17, 17, 17)  
                        .addComponent(jLabel12))
```



```
.addComponent(datefin,                                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel5)

    .addComponent(txttarifa,                            javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,                                24,
Short.MAX_VALUE)

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)
    .addComponent(jLabel6)

    .addComponent(txtcedula,                            javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(10, 10, 10)

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel7)

    .addComponent(txtnombre,                            javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel9)

    .addComponent(txttelefono,                            javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel10)

    .addComponent(txtlugarestacionamiento,                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addGap(18, 18, 18)

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
    .addComponent(jLabel8)

    .addComponent(txttotal,                            javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

.addGroup(imprimir1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
```

```
.addComponent(btnncalcular)
.addComponent(btnreservar))
.addGap(58, 58, 58))
);

txtestacionamiento.setFont(new java.awt.Font("Tahoma", 0, 36)); // NOI18N
txtestacionamiento.setText("ESTACIONAMIENTO N°");

txtcalle.setFont(new java.awt.Font("Tahoma", 0, 36)); // NOI18N
txtcalle.setText("CALLE");


jbutoncar.setIcon(new javax.swing.ImageIcon(getClass().getResource("/res/carro2.png"))); // NOI18N

txnumerito.setFont(new java.awt.Font("Tahoma", 1, 24)); // NOI18N

JToggleButton1.setText("Retirar");
JToggleButton1.addActionListener(new java.awt.event.ActionListener() {
    public void actionPerformed(java.awt.event.ActionEvent evt) {
        JToggleButton1ActionPerformed(evt);
    }
});

jbutoncar2.setIcon(new javax.swing.ImageIcon(getClass().getResource("/res/carro2.png"))); // NOI18N

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());
getContentPane().setLayout(layout);
layout.setHorizontalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addGap(58, 58, 58)
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                        .add(ContainerPanel1)
                        .add(txtcalle)
                        .add(txnumerito)
                        .add(JToggleButton1)
                        .add(jbutoncar2)
                    )
                )
            )
        )
    );
```

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```

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

    .addComponent(jLabel1,                javax.swing.GroupLayout.Alignment.LEADING,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

    .addGroup(javax.swing.GroupLayout.Alignment.LEADING, layout.createSequentialGroup())

        .addComponent(imprimir1,                javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

        .addComponent(jToggleButton1)

        .addGap(0, 41, Short.MAX_VALUE)))

    .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED)

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addComponent(jScrollPane1,    javax.swing.GroupLayout.PREFERRED_SIZE,    1317,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addComponent(jScrollPane2,    javax.swing.GroupLayout.PREFERRED_SIZE,    610,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addContainerGap(130, Short.MAX_VALUE))

    .addGroup(layout.createSequentialGroup())

        .addComponent(jbutoncar,    javax.swing.GroupLayout.PREFERRED_SIZE,    345,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED,
javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(jbutoncar2,    javax.swing.GroupLayout.PREFERRED_SIZE,    345,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(89, 89, 89)))

    .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup())

        .addContainerGap(javax.swing.GroupLayout.DEFAULT_SIZE, Short.MAX_VALUE)

        .addComponent(txttestacionamiento)

        .addGap(24, 24, 24)

        .addComponent(txnumerito,    javax.swing.GroupLayout.PREFERRED_SIZE,    65,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addContainerGap())

    .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(layout.createSequentialGroup())

            .addGap(60, 60, 60)

            .addComponent(txtcalle,    javax.swing.GroupLayout.PREFERRED_SIZE,    174,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addContainerGap(1683, Short.MAX_VALUE)))
);
layout.setVerticalGroup(
    layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
        .addGroup(layout.createSequentialGroup()
            .addContainerGap()
            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                .addGroup(layout.createSequentialGroup()
                    .addComponent(jScrollPane1, javax.swing.GroupLayout.PREFERRED_SIZE, 333,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGap(41, 41, 41)
                    .addComponent(jScrollPane2, javax.swing.GroupLayout.PREFERRED_SIZE, 221,
javax.swing.GroupLayout.PREFERRED_SIZE)
                    .addGroup(layout.createSequentialGroup()
                        .addComponent(jLabel1, javax.swing.GroupLayout.PREFERRED_SIZE, 30,
javax.swing.GroupLayout.PREFERRED_SIZE)
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(imprimir1, javax.swing.GroupLayout.PREFERRED_SIZE,
javax.swing.GroupLayout.DEFAULT_SIZE, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addGroup(javax.swing.GroupLayout.Alignment.TRAILING,
layout.createSequentialGroup()
                                .addComponent(jToggleButton1)
                                .addGap(58, 58, 58))))))
                        .addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.RELATED, 26,
Short.MAX_VALUE)
                        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                            .addComponent(txtestacionamiento, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 37, javax.swing.GroupLayout.PREFERRED_SIZE)
                            .addComponent(txnumerito, javax.swing.GroupLayout.Alignment.TRAILING,
javax.swing.GroupLayout.PREFERRED_SIZE, 37, javax.swing.GroupLayout.PREFERRED_SIZE))
                            .addGap(31, 31, 31)
                            .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)
                                .addComponent(jbutoncar, javax.swing.GroupLayout.PREFERRED_SIZE, 202,
javax.swing.GroupLayout.PREFERRED_SIZE)

```

```

        .addComponent(jbutoncar2, javax.swing.GroupLayout.PREFERRED_SIZE, 202,
javax.swing.GroupLayout.PREFERRED_SIZE))

        .addGap(88, 88, 88))

        .addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

        .addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

        .addContainerGap(642, Short.MAX_VALUE)

        .addComponent(txtcalle, javax.swing.GroupLayout.PREFERRED_SIZE, 37,
javax.swing.GroupLayout.PREFERRED_SIZE)

        .addGap(313, 313, 313)))

    );

    pack();
} // </editor-fold>

private void formWindowClosing(java.awt.event.WindowEvent evt) {

}

private void btnreservarActionPerformed(java.awt.event.ActionEvent evt) {
    jbutoncar.setVisible(true);
    txtcalle.setVisible(true);
    txtestacionamiento.setVisible(true);
    txtestacionamiento.setVisible(true);
    jbutoncar2.setVisible(false);
    try {
        // buscararifa1();
        verificarestadolugar();
    } catch (Exception ex) {
        Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE, null,
ex);
    }
    try {
        listarDatos();
    }
}

```

// TODO add your handling code here:

```
    } catch (Exception ex) {
        Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE, null,
ex);
    }
}

private void jTablepuestoyestadoMouseClicked(java.awt.event.MouseEvent evt) {

private void datefinMouseClicked(java.awt.event.MouseEvent evt) {

}

private void btncalcularActionPerformed(java.awt.event.ActionEvent evt) {

    if(dateinicio.getDate()==null){
        JOptionPane.showMessageDialog(null, "Llenar Fehca Inicio Contrato");
    }else if(dateinicio.getDate()==null){
        JOptionPane.showMessageDialog(null, "Llenar Fehca Fin Contrato");
    }else{

String treserva= combotiporeserva.getSelectedItem().toString();
    if(treserva.equals(RFecha)){
        JOptionPane.showMessageDialog(null, "EL VALOR POR TODO EL DIA ES DECIR LAS 24:00");
        try {
            calucularTfechas(dateinicio, datefin);
        } catch (Exception ex) {
            Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE, null,
ex);
        }
        btnreservar.setEnabled(true);
```

```

}else if(treserva.equals(RDia)){

    JOptionPane.showMessageDialog(null, "EL VALOR DE RESERVA DE DIA LABORAL COMIENZA DESDE 6:00-12:00 Y 2:00-18:00");

    try {

        calcularTDia(dateinicio, datefin);

    } catch (Exception ex) {

        Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE, null, ex);

    }

    btnreservar.setEnabled(true);

}else if(treserva.equals(RNoche)){

    JOptionPane.showMessageDialog(null, "EL VALOR DE RESERVA NOCTURNO COMIENZA DESDE 20:00 A 06:00");

    try {

        calcularTNoche(dateinicio, datefin);

    } catch (Exception ex) {

        Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE, null, ex);

    }

    btnreservar.setEnabled(true);

}else if(treserva.equals(RHora)){

    dateinicio.setEnabled(false);

    datefin.setEnabled(false);

}

}

}

private void combotiporeservaActionPerformed(java.awt.event.ActionEvent evt) {

    // TODO add your handling code here:

}

private void jToggleButton1ActionPerformed(java.awt.event.ActionEvent evt) {

    jbutoncar.setVisible(false);

```

```

txtcalle.setVisible(true);

txtestacionamiento.setVisible(true);
txtestacionamiento.setVisible(true);
jbutoncar2.setVisible(true);


Retirarse r = new Retirarse(jbutoncar2, 100);
r.start();


try {
    cancelar();
    //metodoretirar
} catch (Exception ex) {
    Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE, null,
ex);
}

}


public static void main(String args[]) {
    /* Set the Nimbus look and feel */
    //<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">
    /* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.
    * For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html
    */
    try {
        for (javax.swing.UIManager.LookAndFeelInfo info :
javax.swing.UIManager.getInstalledLookAndFeels()) {
            if ("Nimbus".equals(info.getName())) {
                javax.swing.UIManager.setLookAndFeel(info.getClassName());
                break;
            }
        }
    }
}

```



```

    }

    } catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(InterfazRegistroCliente.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(InterfazRegistroCliente.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(InterfazRegistroCliente.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    } catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(InterfazRegistroCliente.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

    }

//</editor-fold>
//</editor-fold>
//</editor-fold>
//</editor-fold>

/* Create and display the form */

java.awt.EventQueue.invokeLater(new Runnable() {
    public void run() {
        try {
            new InterfazReservaClienteRegistradoJPA().setVisible(true);
        } catch (Exception ex) {
            Logger.getLogger(InterfazReservaClienteRegistradoJPA.class.getName()).log(Level.SEVERE, null, ex);
        }
    }
});
}

```

```

private void CrearModelo(){
    try {
        tblreservacianteLog = (new DefaultTableModel (
            null, new String []{
                "Nticket", "Placa", "Tipo Reserva", "F Ingreso", "F
Salida", "Tarifa", "Cedula", "Nombre", "Telefono", "LugarEstacionamiento", "TotalPagar" }) { } );
        jTable1.setModel(tblreservacianteLog);
    } catch (Exception e) {
        JOptionPane.showMessageDialog(null, "Error");
    }
}

public void limpiar(){
    txtcedula.setText("");
    txtlugarestacionamiento.setText("");
    txtnombre.setText("");
    txnticket.setText("");
    txtplaca.setText("");
    txttarifa.setText("");
    txttelefono.setText("");
    txttotal.setText("");
}

public void listarDatos() throws Exception {
    tblreservacianteLog.setRowCount(0);
    for (ReservaClienteLogeadoJPA rcl : clienteLog.buscartodo()) {
        String datos[] = {String.valueOf(rcl.getNticket()),rcl.getPlaca(),rcl.getTipoReserva(),
            rcl.getFechaIngreso(),rcl.getFechaSalida(),String.valueOf(rcl.getTarifa()),rcl.getCedula(),
            rcl.getNombre(),rcl.getTelefono(),String.valueOf(rcl.getNpuesto()),String.valueOf(rcl.getTotal())};
        tblreservacianteLog.addRow(datos);
    }
}

```

```
public void cargarDatos(int posicion) throws Exception {  
    if (posicion >= 0) {  
        ReservaClienteLogeadoJPA rcl = clienteLog.buscartodo().get(posicion);  
        txtnticket.setText(rcl.getNticket()+"");  
        txtcedula.setText(rcl.getCedula());  
        txtlugarestacionamiento.setText(rcl.getNpuesto()+"");  
        txtnombre.setText(rcl.getNombre());  
        txnumerito.setText(rcl.getNpuesto()+"");  
        txtplaca.setText(rcl.getPlaca());  
        txttarifa.setText(rcl.getTarifa()+"");  
        txttelefono.setText(rcl.getTelefono());  
        txttotal.setText(rcl.getTotal()+"");  
    }  
}  
  
public void cancelar() throws Exception {  
  
    int id = Integer.parseInt(txtnticket.getText());  
    ReservaClienteLogeadoJPA a = clienteLog.leer(id);  
    Document document = new Document();  
    PdfWriter.getInstance(document, new FileOutputStream("TicketRetiro.pdf"));  
    // D:\Metodos Numericos\CreditoBancarioJPA5  
    document.open();  
  
    Paragraph into = new Paragraph("Ticket");  
    Paragraph space = new Paragraph(" ");  
  
    PdfPTable tablaticket = new PdfPTable(7);  
  
    PdfPCell nticket = new PdfPCell(new Paragraph("Ticket"));  
    PdfPCell cedula = new PdfPCell(new Paragraph("Cedula"));  
    PdfPCell nombre = new PdfPCell(new Paragraph("Nombre"));
```

```
PdfPCell placa = new PdfPCell(new Paragraph("Placa"));  
PdfPCell total = new PdfPCell(new Paragraph("Total"));  
PdfPCell fingresp = new PdfPCell(new Paragraph("Ingreso"));  
PdfPCell fsalida = new PdfPCell(new Paragraph("Salida"));
```

```
tablaticket.addCell(nticket);  
tablaticket.addCell(cedula);  
tablaticket.addCell(nombre);  
tablaticket.addCell(placa);  
tablaticket.addCell(fingresp);  
tablaticket.addCell(fsalida);  
tablaticket.addCell(total);
```

```
nticket = new PdfPCell(new Paragraph(txtnticket.getText()));  
cedula = new PdfPCell(new Paragraph(a.getCedula()));  
placa = new PdfPCell(new Paragraph(a.getPlaca()));  
nombre = new PdfPCell(new Paragraph(a.getNombre()));  
fingresp = new PdfPCell(new Paragraph(a.getFechaIngreso()));  
fsalida = new PdfPCell(new Paragraph(a.getFechaSalida()));  
total = new PdfPCell(new Paragraph(a.getTotal()+""));
```

```
tablaticket.addCell(nticket);  
tablaticket.addCell(cedula);  
tablaticket.addCell(nombre);  
tablaticket.addCell(placa);  
tablaticket.addCell(fingresp);  
tablaticket.addCell(fsalida);  
tablaticket.addCell(total);  
document.add(into);  
document.add(space);  
document.add(tablaticket);
```

```
document.add(space);

document.close();


JOptionPane.showMessageDialog(null, "Ticket generado con éxito \n revise el PDF");
//clienteLog.eliminar(a);

listarDatos();

listarDatos2();
}

public void iniciar() {

}

// Variables declaration - do not modify
private javax.swing.JButton btncalcular;
private javax.swing.JButton btnreservar;
private javax.swing.JComboBox<String> combotiporeserva;
private com.toedter.calendar.JDateChooser datefin;
private com.toedter.calendar.JDateChooser dateinicio;
private ups.edu.ec.vista.imprimir imprimir1;
private javax.swing.JLabel jLabel1;
private javax.swing.JLabel jLabel10;
private javax.swing.JLabel jLabel11;
private javax.swing.JLabel jLabel12;
private javax.swing.JLabel jLabel2;
private javax.swing.JLabel jLabel3;
private javax.swing.JLabel jLabel4;
private javax.swing.JLabel jLabel5;
private javax.swing.JLabel jLabel6;
private javax.swing.JLabel jLabel7;
```

```

private javax.swing.JLabel jLabel8;

private javax.swing.JLabel jLabel9;

private javax.swing.JScrollPane jScrollPane1;

private javax.swing.JScrollPane jScrollPane2;

private javax.swing.JTable jTablepuestoyestado;

private javax.swing.JToggleButton jToggleButton1;

private javax.swing.JButton jbutoncar;

private javax.swing.JButton jbutoncar2;

private javax.swing.JTable jTable1;

private javax.swing.JLabel txnumerito;

private javax.swing.JLabel txtcalle;

private javax.swing.JTextField txtcedula;

private javax.swing.JLabel txtestacionamiento;

private javax.swing.JTextField txtlugarestacionamiento;

private javax.swing.JTextField txtnombre;

private javax.swing.JTextField txtnticket;

private javax.swing.JTextField txtplaca;

private javax.swing.JTextField txttarifa;

private javax.swing.JTextField txttelefono;

private javax.swing.JTextField txttotal;

// End of variables declaration
}
CLASE RETIRARSE(contiene el hilo para simular la salida y entrada del vehiculo, )

/*
 * To change this license header, choose License Headers in Project Properties.
 * To change this template file, choose Tools | Templates
 * and open the template in the editor.
 */
package ups.edu.ec.vista;

import javax.swing.JLabel;

import java.applet.Applet;

import javax.swing.JButton;

```

```
/**
 *
 * @author japch
 */
public class Retirarse extends Thread{
    JButton carro;

    int velocidad;

    public Retirarse(JButton carro, int velocidad) {
        this.carro = carro;
        this.velocidad = velocidad;
    }

    public void run() {

        for (int i = 0; i <= 1380; i++) {

            carro.setLocation(carro.getX()-1,carro.getY());

            try {
                Thread.sleep(500/velocidad);
            } catch (Exception e) {

            }

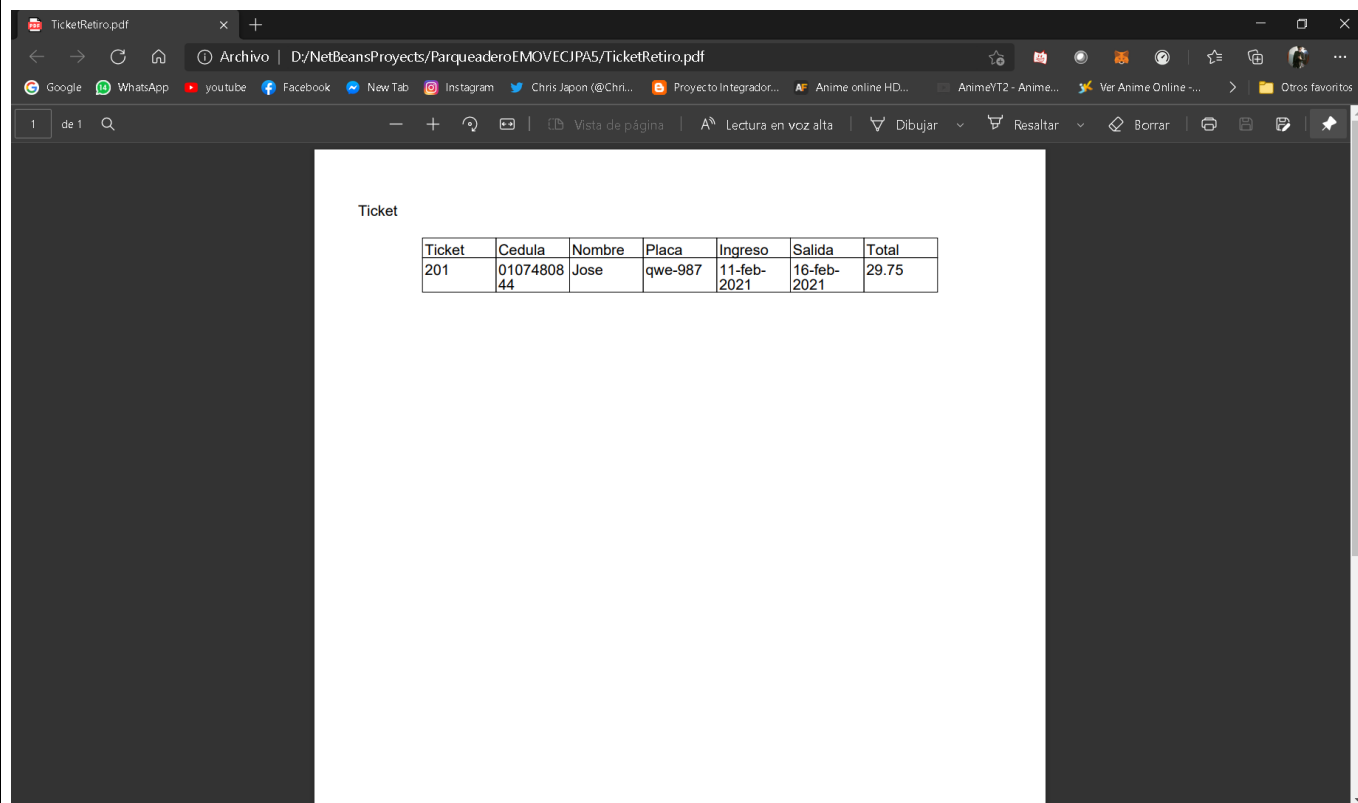
        }

    }

    public void detener() {
        this.stop();
    }
}
```

}

5.Ejemplo de salida de ticket



6.

N.


RESULTADO(S) OBTENIDO(S):

Realización del programa con un éxito satisfactorio de mi persona al saber que se pudo resolver los puntos dados para el trabajo, tratando de realizar con los ejemplos dados en clases además de obtener algunas informaciones de sitios educativos en la web,

CONCLUSIONES: Los temas dados para la realización del trabajo fueron dados con una buena explicación para poder realizarlos además de que abarca los temas suficientes para poder hacerlos, además de la incentivar buscar alternativas para mejorar el programa que pide, ya sea buscar el uso de librerías apartes. Aparte de cierto tipo de programación que nos ayuda a reducir código.

RECOMENDACIONES: La practica constante en el ámbito de programación es lo necesario, no necesariamente se necesita saber el paso a paso memorizado para realizar un programa ya que muchos piden otro objetivo.

Nombre de estudiante: _____ Christian Japon _____

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	Programacion Aplicada	Período Lectivo: Marzo 2020 – Julio 2020

Firma de estudiante: _____

