# Universidad Autónoma de Baja California Grupo: 541

**Docente:** 

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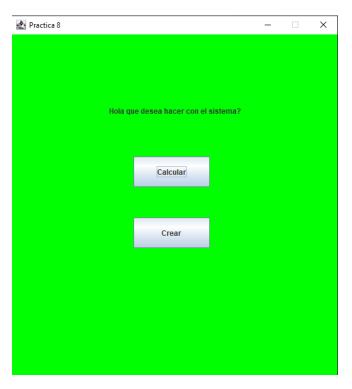


# Alumno:

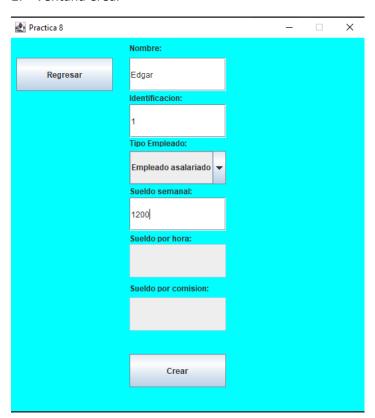
Landa Luna Edgar Miguel 1263337
Programación orientada a objetos
Practica #8

Fecha de entrega: 03-diciembre-2020

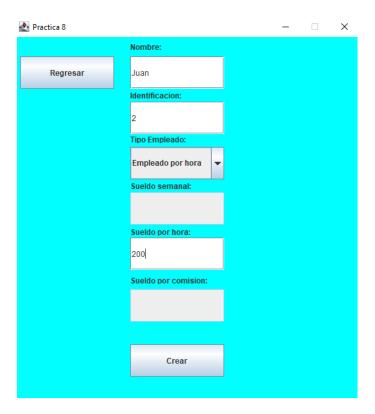
# 1. Menú



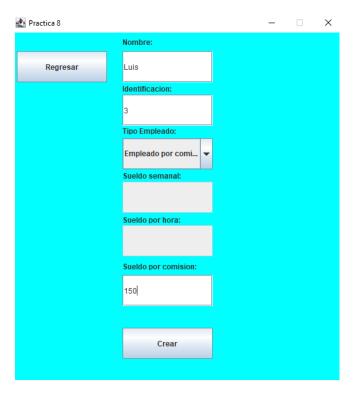
# 2. Ventana Crear



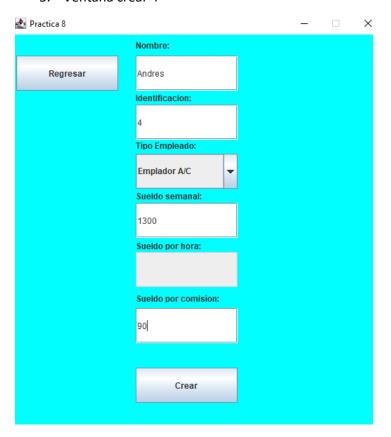
#### 3. Ventana crear 2



#### 4. Ventana crear 3



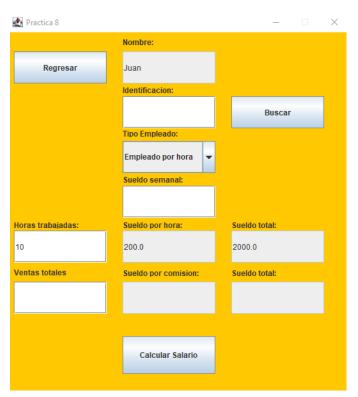
# 5. Ventana crear 4



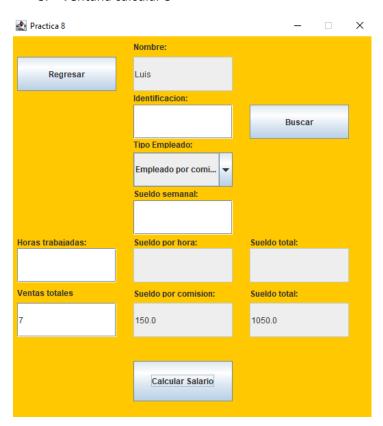
# 6. Ventana calcular 1



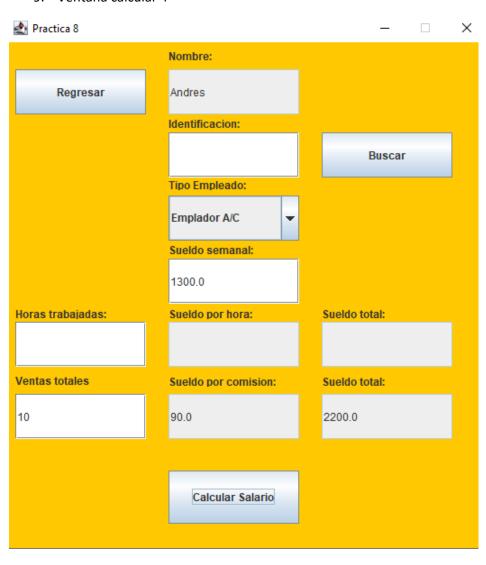
# 7. Ventana calcular 2



# 8. Ventana calcular 3



# 9. Ventana calcular 4



#### Codigo

#### 1. Menú principal

```
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.JFrame;
public class Practica8 {
    JFrame frame = new JFrame("Practica 8");//frame principal
    ///llama a los paneles
    PanelMenu panelMenu = new PanelMenu();
    PanelCrear panelCrear = new PanelCrear();
    PanelCalcular panelCalcular = new PanelCalcular();
    ///instancia de empleados
    public static Empleados[] empleados = new Empleados[10];
    public static void main(String[] args) {
        Practica8 menu = new Practica8();
    public Practica8() {
        ///propiedades del frame
        frame.setBounds(450, 100, 550, 600);
        frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        frame.add(panelMenu);
        frame.setVisible(true);
        frame.setResizable(false);
        acciones();
    public void acciones() {
//acciones de botones que simplemente permiten el cambio de paneles de uno a
        panelMenu.btnCrear.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                panelMenu.setVisible(false);
                panelCrear.setVisible(true);
                frame.add(panelCrear);
        });
        panelMenu.btnCalcular.addActionListener(new ActionListener(){
            @Override
```

```
public void actionPerformed(ActionEvent e) {
        panelMenu.setVisible(false);
        panelCalcular.setVisible(true);
        frame.add(panelCalcular);
});
panelCrear.btnBack.addActionListener(new ActionListener(){
    @Override
    public void actionPerformed(ActionEvent e) {
        panelMenu.setVisible(true);
        panelCrear.setVisible(false);
        frame.add(panelMenu);
});
panelCalcular.btnBack.addActionListener(new ActionListener(){
    @Override
    public void actionPerformed(ActionEvent e) {
        panelMenu.setVisible(true);
        panelCalcular.setVisible(false);
        frame.add(panelMenu);
});
```

#### 2. PanelMenu

```
import java.awt.Color;
import javax.swing.*;

public class PanelMenu extends JPanel{
    public JButton btnCrear;
    public JButton btnCalcular;
    JLabel lblHola;

public PanelMenu(){//creacion del pequeno menu
        setLayout(null);
        setBackground(Color.GREEN);
        lblHola = new JLabel("Hola que desea hacer con el sistema?");
        lblHola.setBounds(160, 100, 240, 50);

btnCalcular = new JButton("Calcular");
```

```
btnCalcular.setBounds(200,200,125,50);

btnCrear = new JButton("Crear");
btnCrear.setBounds(200, 300, 125, 50);

add(lblHola);
add(btnCalcular);
add(btnCrear);
}
}
```

#### 3. PanelCrear

```
import static javax.swing.JOptionPane.ERROR_MESSAGE;
import java.awt.Color;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import javax.swing.*;
///este codigo no lo explico por que creo que
///esta muy dinamico y entendible
public class PanelCrear extends JPanel {
    //Creaccion de objeto
    JButton btnCrear = new JButton("Crear");
    JButton btnBack = new JButton("Regresar");
    JTextField txtName = new JTextField();
    JTextField txtId = new JTextField();
    JTextField txtSueldo = new JTextField();
    JTextField txtHoras = new JTextField();
    JTextField txtComision = new JTextField();
    JComboBox<String> comboTypeE = new JComboBox<>();
    JLabel lblName = new JLabel("Nombre:");
    JLabel lblId = new JLabel("Identificacion:");
    JLabel lblTypeE = new JLabel("Tipo Empleado:");
    JLabel lblSueldo = new JLabel("Sueldo semanal:");
    JLabel lblHoras = new JLabel("Sueldo por hora:");
    JLabel lblComision = new JLabel("Sueldo por comision:");
    int i = 0;
    public PanelCrear() {
        setLayout(null);
```

```
this.setBackground(Color.cyan);
///armando ventana
txtName.setBounds(180, 30, 145, 50);
txtId.setBounds(180, 100, 145, 50);
txtSueldo.setBounds(180, 240, 145, 50);
txtHoras.setBounds(180, 310, 145, 50);
txtComision.setBounds(180, 390, 145, 50);
txtSueldo.setEditable(true);
txtHoras.setEditable(false);
txtComision.setEditable(false);
comboTypeE.setBounds(180, 170, 145, 50);
comboTypeE.addItem("Empleado asalariado");
comboTypeE.addItem("Empleado por hora");
comboTypeE.addItem("Empleado por comision");
comboTypeE.addItem("Emplador A/C");
lblName.setBounds(180, 10, 145, 10);
lblId.setBounds(180, 85, 145, 10);
lblTypeE.setBounds(180, 152, 145, 12);
lblSueldo.setBounds(180, 225, 145, 10);
lblHoras.setBounds(180, 295, 145, 12);
lblComision.setBounds(180, 370, 145, 12);
btnBack.setBounds(10, 30, 145, 50);
btnCrear.setBounds(180, 475, 145, 50);
accionesCrear();
add(lblName);
add(lblId);
add(lblTypeE);
add(lblSueldo);
add(lblHoras);
add(lblComision);
add(txtName);
add(txtId);
add(txtSueldo);
add(txtHoras);
add(txtComision);
add(comboTypeE);
```

```
add(btnBack);
        add(btnCrear);
    //metodos de los botones
    public void accionesCrear() {
        btnCrear.addActionListener(new ActionListener() {
            ///esto permite la creaccion del tipo de empleado
            //dependiendo del combobox
            @Override
            public void actionPerformed(ActionEvent e) {
                switch (comboTypeE.getSelectedItem().toString()) {
                    case "Empleado asalariado":
                        try {
                            Practica8.empleados[i] = new EmpleadosA(txtName.
getText(),
                                    Integer.parseInt(txtId.getText()), 1, Fl
oat.parseFloat(txtSueldo.getText()));
                            i++;
                        } catch (Exception er) {
                            JOptionPane.showMessageDialog(txtId, "Datos no e
stan completos", "Error", ERROR_MESSAGE,
                                    null);
                        break;
                    case "Empleado por hora":
                        try {
                            Practica8.empleados[i] = new EmpleadosH(txtName.
getText(),
                                    Integer.parseInt(txtId.getText()), 2, F1
oat.parseFloat(txtHoras.getText()));
                        } catch (Exception er) {
                            JOptionPane.showMessageDialog(txtId, "Datos no e
stan completos", "Error", ERROR_MESSAGE,
                                    null);
                        break;
                    case "Empleado por comision":
                        try {
                            Practica8.empleados[i] = new EmpleadosC(txtName.
getText(),
                                    Integer.parseInt(txtId.getText()), 3, Fl
oat.parseFloat(txtComision.getText()));
```

```
} catch (Exception er) {
                            JOptionPane.showMessageDialog(txtId, "Datos no e
stan completos", "Error", ERROR_MESSAGE,
                                    null);
                        break:
                    case "Emplador A/C":
                        try {
                            Practica8.empleados[i] = new EmpleadosAC(txtName
.getText(),
                                    Integer.parseInt(txtId.getText()), 4, Fl
oat.parseFloat(txtComision.getText()),
                                    Float.parseFloat(txtSueldo.getText()));
                            i++;
                        } catch (Exception er) {
                            JOptionPane.showMessageDialog(txtId, "Datos no e
stan completos", "Error", ERROR_MESSAGE,
                                    null);
                        break;
                    default:
                        break;
                limpiar();
        });
        ///Dependeiendo del combobox
        //deja editar en unos u otros
        comboTypeE.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                switch (comboTypeE.getSelectedItem().toString()) {
                    case "Empleado asalariado":
                        txtSueldo.setEditable(true);
                        txtHoras.setEditable(false);
                        txtComision.setEditable(false);
                        break;
                    case "Empleado por hora":
                        txtSueldo.setEditable(false);
                        txtHoras.setEditable(true);
                        txtComision.setEditable(false);
                        break;
                    case "Empleado por comision":
                        txtSueldo.setEditable(false);
```

```
txtHoras.setEditable(false);
                    txtComision.setEditable(true);
                    break;
                case "Emplador A/C":
                    txtSueldo.setEditable(true);
                    txtHoras.setEditable(false);
                    txtComision.setEditable(true);
                    break:
                default:
                    break;
   });
//limpiar los textfield
public void limpiar() {
   txtName.setText("");
   txtId.setText("");
   txtSueldo.setText("");
    txtHoras.setText("");
    txtComision.setText("");
    comboTypeE.setSelectedIndex(0);
    txtSueldo.setEditable(true);
   txtHoras.setEditable(false);
   txtComision.setEditable(false);
}
```

#### 4. PanelCalcular

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;

public class PanelCalcular extends JPanel {
    int posicion;
    //creaccion de objetos
    JButton btnCalcular = new JButton("Calcular Salario");
    JButton btnBuscar = new JButton("Buscar");
    JButton btnBack = new JButton("Regresar");

JTextField txtName = new JTextField();
    JTextField txtId = new JTextField();
    JTextField txtSueldo = new JTextField();
```

```
JTextField txtHoras = new JTextField();
JTextField txtComision = new JTextField();
JTextField txtCalHoras = new JTextField();
JTextField txtCalComision = new JTextField();
JTextField txtHorasT = new JTextField();
JTextField txtComisionT = new JTextField();
JComboBox<String> comboTypeE = new JComboBox<>();
JLabel lblName = new JLabel("Nombre:");
JLabel lblId = new JLabel("Identificacion:");
JLabel lblTypeE = new JLabel("Tipo Empleado:");
JLabel lblSueldo = new JLabel("Sueldo semanal:");
JLabel lblHoras = new JLabel("Sueldo por hora:");
JLabel lblComision = new JLabel("Sueldo por comision:");
JLabel lblCalHoras = new JLabel("Sueldo total:");
JLabel lblCalComision = new JLabel("Sueldo total:");
JLabel lblHorasT = new JLabel("Horas trabajadas:");
JLabel lblComisionT = new JLabel("Ventas totales");
PanelCrear panelCrear = new PanelCrear();
public PanelCalcular() {
    setLayout(null);
   this.setBackground(Color.ORANGE);
   txtName.setBounds(180, 30, 145, 50);
    txtId.setBounds(180, 100, 145, 50);
    txtSueldo.setBounds(180, 240, 145, 50);
   txtHoras.setBounds(180, 310, 145, 50);
    txtComision.setBounds(180, 390, 145, 50);
   txtCalHoras.setBounds(350, 310, 145, 50);
    txtCalComision.setBounds(350, 390, 145, 50);
    txtHorasT.setBounds(10, 310, 145, 50);
    txtComisionT.setBounds(10, 390, 145, 50);
    txtCalComision.setEditable(false);
    txtCalHoras.setEditable(false);
    txtName.setEditable(false);
    txtSueldo.setEditable(false);
    txtHoras.setEditable(false);
    txtComision.setEditable(false);
    comboTypeE.setBounds(180, 170, 145, 50);
    comboTypeE.addItem("Empleado asalariado");
    comboTypeE.addItem("Empleado por hora");
```

```
comboTypeE.addItem("Empleado por comision");
comboTypeE.addItem("Emplador A/C");
comboTypeE.setEditable(false);
lblName.setBounds(180, 10, 145, 10);
lblId.setBounds(180, 85, 145, 10);
lblTypeE.setBounds(180, 152, 145, 12);
lblSueldo.setBounds(180, 225, 145, 10);
lblHoras.setBounds(180, 295, 145, 12);
lblComision.setBounds(180, 370, 145, 12);
lblCalHoras.setBounds(350, 295, 145, 12);
lblCalComision.setBounds(350, 370, 145, 12);
lblComisionT.setBounds(10, 370, 145, 10);
lblHorasT.setBounds(10, 295, 145, 12);
btnBack.setBounds(10, 30, 145, 50);
btnBuscar.setBounds(350, 100, 145, 50);
btnCalcular.setBounds(180, 475, 145, 59);
accionesCrear();
add(lblName);
add(lblId);
add(lblTypeE);
add(lblSueldo);
add(lblHoras);
add(lblComision);
add(lblCalHoras);
add(lblCalComision);
add(lblHorasT);
add(lblComisionT);
add(txtName);
add(txtId);
add(txtSueldo);
add(txtHoras);
add(txtComision);
add(txtHorasT);
add(txtComisionT);
add(txtCalHoras);
add(txtCalComision);
add(comboTypeE);
add(btnBuscar);
add(btnCalcular);
```

```
add(btnBack);
    private void accionesCrear() {
        btnBuscar.addActionListener(new ActionListener() {
            @Override
            public void actionPerformed(ActionEvent e) {
                try {
                    for (int i = 0; i < Practica8.empleados.length; i++) {</pre>
                        ///permite leer la informacion de los empleados
                        //y refleajarlos
                        if (Practica8.empleados[i].getId().toString().equals
(txtId.getText())) {
                            switch (Practica8.empleados[i].typeE) {
                                 case 1:
                                     limpiar();
                                     txtName.setText(Practica8.empleados[i].g
etName());
                                     txtSueldo.setText(
                                             ((EmpleadosA) Practica8.empleado
s[i]).getSueldoSemanal().toString());
                                     comboTypeE.setSelectedIndex(0);
                                     posicion = i;
                                     break;
                                case 2:
                                     limpiar();
                                     txtName.setText(Practica8.empleados[i].g
etName());
                                     txtHoras.setText(((EmpleadosH) Practica8
.empleados[i]).getSueldoHoras().toString());
                                     comboTypeE.setSelectedIndex(1);
                                     posicion = i;
                                     break;
                                 case 3:
                                     limpiar();
                                     txtName.setText(Practica8.empleados[i].g
etName());
                                     txtComision.setText(((EmpleadosC) Practi
ca8.empleados[i]).getComision().toString());
                                     comboTypeE.setSelectedIndex(2);
                                     posicion = i;
```

```
break;
                                case 4:
                                    limpiar();
                                    txtName.setText(((EmpleadosAC) Practica8
.empleados[i]).getName());
                                    txtComision.setText(((EmpleadosAC) Pract
ica8.empleados[i]).getSueldoC().toString());
                                    txtSueldo.setText(((EmpleadosAC) Practic
a8.empleados[i]).getSueldoA().toString());
                                    comboTypeE.setSelectedIndex(3);
                                    posicion = i;
                                    break;
                                default:
                                    break;
                } catch (Exception er) {
            }
        });
        btnCalcular.addActionListener(new ActionListener() {
            ///depnde del tipo de empleado escogera su calculo
            @Override
            public void actionPerformed(ActionEvent e) {
                try {
                    System.out.println(posicion + " " + Practica8.empleados[
posicion].typeE);
                    if (Practica8.empleados[posicion].typeE == 1) {
                        ((EmpleadosA) Practica8.empleados[posicion]).calSala
rio(Float.parseFloat(txtSueldo.getText()));
                    } else if (Practica8.empleados[posicion].typeE == 2) {
                        txtCalHoras.setText(((EmpleadosH) Practica8.empleado
s[posicion])
                                .calSalario(Float.parseFloat(txtHorasT.getTe
xt())).toString());
                    } else if (Practica8.empleados[posicion].typeE == 3) {
                        txtCalComision.setText(((EmpleadosC) Practica8.emple
ados[posicion])
                                .calSalario(Float.parseFloat(txtComisionT.ge
tText())).toString());
```

```
} else if (Practica8.empleados[posicion].typeE == 4) {
                        txtCalComision.setText(((EmpleadosAC) Practica8.empl
eados[posicion])
                                .calSalario(Float.parseFloat(txtComisionT.ge
tText())).toString());
                } catch (Exception er) {
        });
    public void limpiar() {
        txtName.setText("");
        txtId.setText("");
        txtSueldo.setText("");
        txtHoras.setText("");
        txtComision.setText("");
        txtCalComision.setText("");
        txtCalHoras.setText("");
        txtHorasT.setText("");
        txtComisionT.setText("");
        comboTypeE.setSelectedIndex(0);
        txtSueldo.setEditable(true);
        txtHoras.setEditable(false);
        txtComision.setEditable(false);
```

5. interfazE

```
public interface InterfazE {
    Float calSalario(float hola);
}
```

#### 6. Empleados

```
public abstract class Empleados implements InterfazE {
   String name;
   public Integer id;
   int typeE;

public Empleados(String name, Integer id, int typeE) {
      this.name=name;
      this.id=id;
      this.typeE=typeE;
   }

public Float calSalario(float f){
      return null;
   }

public String getName() {
      return this.name;
   }

public Integer getId() {
      return this.id;
   }
}
```

#### 7. EmpleadosH

```
public class EmpleadosH extends Empleados {
   Float sueldoHoras;
   public EmpleadosH(String name, Integer id, int typeE, Float sueldoHoras)
{
      super(name, id, typeE);
      this.sueldoHoras=sueldoHoras;
   }
   public Float getSueldoHoras() {
      return this.sueldoHoras;
   }
   @Override
   public Float calSalario(float horas) {
      return sueldoHoras * horas;
   }
}
```

#### 8. EmpleadosA

```
public class EmpleadosA extends Empleados {
   public Float sueldoSemenal;

   public EmpleadosA(String name, Integer id, int typeE, Float sueldoSemena
1) {
        super(name,id,typeE);
        this.sueldoSemenal=sueldoSemenal;
   }

   public Float getSueldoSemanal() {
        return this.sueldoSemenal;
   }

   public Float calSalario(float sueldoSemanal) {
        return this.sueldoSemenal;
   }
}
```

# 9. EmpleadosAC

```
public class EmpleadosAC extends Empleados{
    Float sueldoA;
    Float sueldoC;

    public EmpleadosAC(String name, Integer id, int typeE, Float sueldoC, Fl
oat sueldoA) {
        super(name, id, typeE);
        this.sueldoA = sueldoA;
        this.sueldoC = sueldoC;
    }

    public Float calSalario(float numVentas){
        return sueldoA + sueldoC * numVentas;
    }

    public Float getSueldoA() {
        return this.sueldoA;
    }

    public Float getSueldoC() {
        return this.sueldoC;
    }
}
```

# 10. EmpleadosC

```
public class EmpleadosC extends Empleados {
    private Float comision;
    public EmpleadosC(String name, Integer id, int typeE, Float comision) {
        super(name, id, typeE);
        this.comision = comision;
    }
    public Float getComision() {
        return this.comision;
    }
    public Float calSalario(float numVentas){
        return comision * numVentas;
    }
}
```