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PRIMER PARCIAL INF -328

2. Realice una calculadora por ventanas en los lenguajes c# y phyton.

CODIGO EN PHYTON

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"""

from tkinter import *

import parser

def get_numero(n):

 global i

 pantalla.insert(i, n)

 i += 1

def get_operacion(operator):

 global i

 opertor_length = len(operator)

 pantalla.insert(i, operator)

 i+=opertor_length

def calcula():

 pantalla_state = pantalla.get()

 try:

 math_expression = parser.expr(pantalla_state).compile()

 result = eval(math_expression)

 clear_pantalla()

 pantalla.insert(0, result)

 except Exception:

 clear_pantalla()

```
pantalla.insert(0, 'Error')
```

```
def clear_pantalla():
```

```
    pantalla.delete(0, END)
```

```
def undo():
```

```
    pantalla_state = pantalla.get()
```

```
    if len(pantalla_state):
```

```
        pantalla_new_state = pantalla_state[:-1]
```

```
        clear_pantalla()
```

```
        pantalla.insert(0, pantalla_new_state)
```

```
    else:
```

```
        clear_pantalla()
```

```
        pantalla.insert(0, 'Error')
```

```
raiz = Tk()
```

```
raiz.title("CALCULADORA BASICA")
```

```
pantalla = Entry(raiz)
```

```
pantalla.grid(row=1, columnspan=6, sticky=W+E)
```

```
i = 0
```

```
# botones numericos
```

```
Button(raiz, text="1", command=lambda: get_numero(1)).grid(row=2, column=0)
```

```
Button(raiz, text="2", command=lambda: get_numero(2)).grid(row=2, column=1)
```

```
Button(raiz, text="3", command=lambda: get_numero(3)).grid(row=2, column=2)
```

```
Button(raiz, text="4", command=lambda: get_numero(4)).grid(row=3, column=0)
```

```
Button(raiz, text="5", command=lambda: get_numero(5)).grid(row=3, column=1)
```

```
Button(raiz, text="6", command=lambda: get_numero(6)).grid(row=3, column=2)
```

```
Button(raiz, text="7", command=lambda: get_numero(7)).grid(row=4, column=0)
```

```
Button(raiz, text="8", command=lambda: get_numero(8)).grid(row=4, column=1)
```

```
Button(raiz, text="9", command=lambda: get_numero(9)).grid(row=4, column=2)
```

```
# Botones borrar
```

```
Button(raiz, text="AC", command=lambda: clear_pantalla()).grid(row=5, column=0)
```

```
Button(raiz, text="0", command=lambda: get_numero(0)).grid(row=5, column=1)
```

```
Button(raiz, text="%", command=lambda: get_operacion("%")).grid(row=5, column=2)
```

```
Button(raiz, text="+", command=lambda: get_operacion("+")).grid(row=2, column=3)
```

```
Button(raiz, text="-", command=lambda: get_operacion("-")).grid(row=3, column=3, sticky=W+E)
```

```
Button(raiz, text="*", command=lambda: get_operacion("*")).grid(row=4, column=3, sticky=W+E)
```

```
Button(raiz, text="/", command=lambda: get_operacion("/")).grid(row=5, column=3, sticky=W+E)
```

```
# botones de operadores
```

```
Button(raiz, text="←", command=lambda: undo()).grid(row=2, column=4, sticky=W+E,  
columnspan=2)
```

```
Button(raiz, text="exp", command=lambda: get_operacion("**")).grid(row=3, column=4)
```

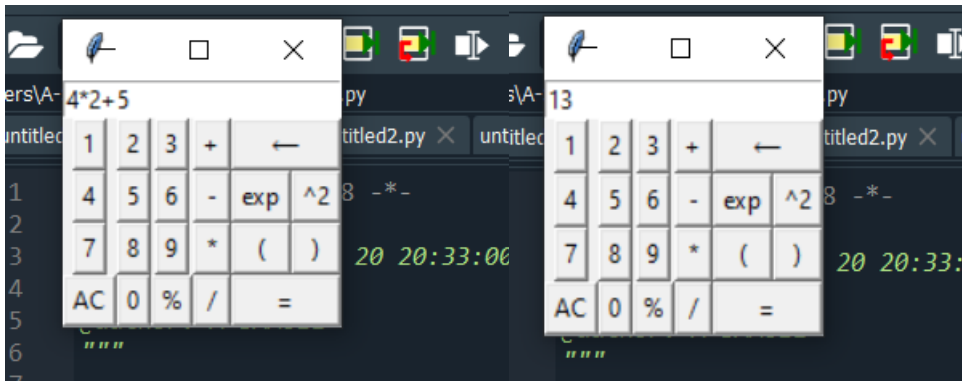
```
Button(raiz, text="^2", command=lambda: get_operacion("**2")).grid(row=3, column=5)
```

```
Button(raiz, text="(", command=lambda: get_operacion("(")).grid(row=4, column=4, sticky=W+E)
```

```
Button(raiz, text=")", command=lambda: get_operacion(")").grid(row=4, column=5, sticky=W+E)
```

```
Button(raiz, text="=", command=lambda: calcula()).grid(row=5, column=4, sticky=W+E,  
columnspan=2)
```

```
raiz.mainloop()
```



CODIGO EN C#

```
namespace calculo
{
    public partial class Form1 : Form
    {
        double primero;
        double segundo;
        double resultado;
        String operacion;
        public Form1()
        {
            InitializeComponent();
        }

        private void btncero_Click(object sender, EventArgs e)
        {
            pantalla.Text = pantalla.Text + "0";
        }

        private void btn1_Click(object sender, EventArgs e)
        {
            pantalla.Text = pantalla.Text + "1";
        }

        private void btn2_Click(object sender, EventArgs e)
        {
            pantalla.Text = pantalla.Text + "2";
        }

        private void btn3_Click(object sender, EventArgs e)
        {
            pantalla.Text = pantalla.Text + "3";
        }

        private void btn4_Click(object sender, EventArgs e)
        {
            pantalla.Text = pantalla.Text + "4";
        }

        private void btn5_Click(object sender, EventArgs e)
        {
            pantalla.Text = pantalla.Text + "5";
        }
    }
}
```

```
{
    pantalla.Text = pantalla.Text + "5";
}

private void btn6_Click(object sender, EventArgs e)
{
    pantalla.Text = pantalla.Text + "6";
}

private void btn7_Click(object sender, EventArgs e)
{
    pantalla.Text = pantalla.Text + "7";
}

private void btn8_Click(object sender, EventArgs e)
{
    pantalla.Text = pantalla.Text + "8";
}

private void btn9_Click(object sender, EventArgs e)
{
    pantalla.Text = pantalla.Text + "9";
}

private void btnpunto_Click(object sender, EventArgs e)
{
    pantalla.Text = pantalla.Text + ".";
}

private void btnsuma_Click(object sender, EventArgs e)
{
    operacion = "+";
    primero = double.Parse(pantalla.Text);
    pantalla.Clear();
}

private void btnresta_Click(object sender, EventArgs e)
{
    operacion = "-";
    primero = double.Parse(pantalla.Text);
    pantalla.Clear();
}

private void btnmulti_Click(object sender, EventArgs e)
{
    operacion = "*";
    primero = double.Parse(pantalla.Text);
    pantalla.Clear();
}

private void btndivision_Click(object sender, EventArgs e)
{
    operacion = "/";
    primero = double.Parse(pantalla.Text);
    pantalla.Clear();
}

private void btnigual_Click(object sender, EventArgs e)
```

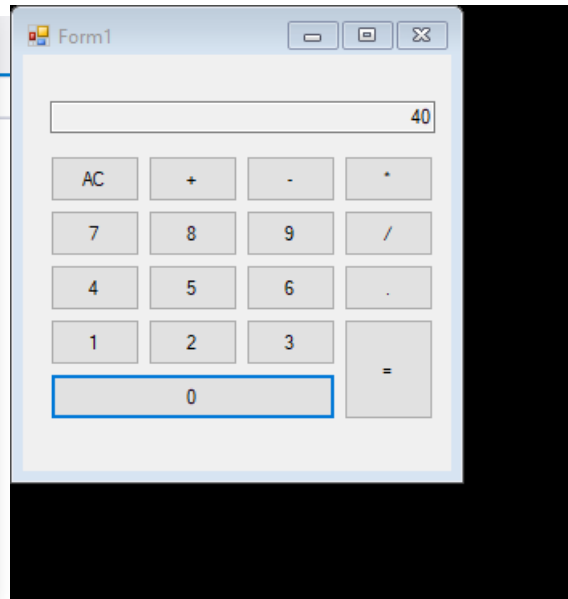
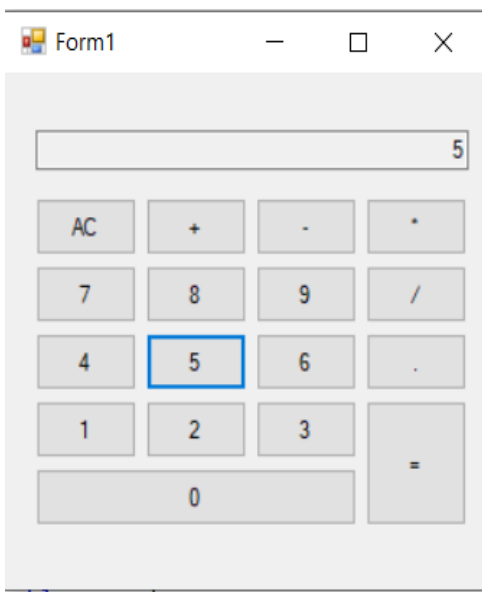
```

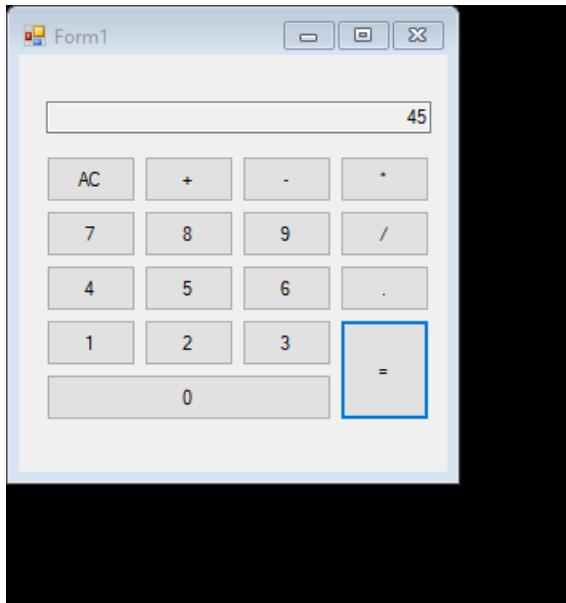
{
    segundo = double.Parse(pantalla.Text);

    switch (operacion) {
        case "+":
            resultado = primero + segundo;
            pantalla.Text = resultado.ToString();
            break;
        case "-":
            resultado = primero - segundo;
            pantalla.Text = resultado.ToString();
            break;
        case "*":
            resultado = primero * segundo;
            pantalla.Text = resultado.ToString();
            break;
        case "/":
            resultado = primero / segundo;
            pantalla.Text = resultado.ToString();
            break;
    }
}

private void btnlimpiar_Click(object sender, EventArgs e)
{
    pantalla.Clear();
}
}

```





3. Realice el paso de variables entre los lenguajes php ,net y java paso de datos de nombres.

Pasar los datos de php a net y a java

DE PHP A NET

Código en php

```
<form method="get" action ="http://localhost:51580/Default.aspx">
```

```
Nombre <input type="text" name="nombre"/><br/>
```

```
Apellido<input type="text" name="apellido"/><br/>
```

```
codigo<input type="text" name="codigo"/><br/>
```

```
<input type="submit" name="enviar"/>
```

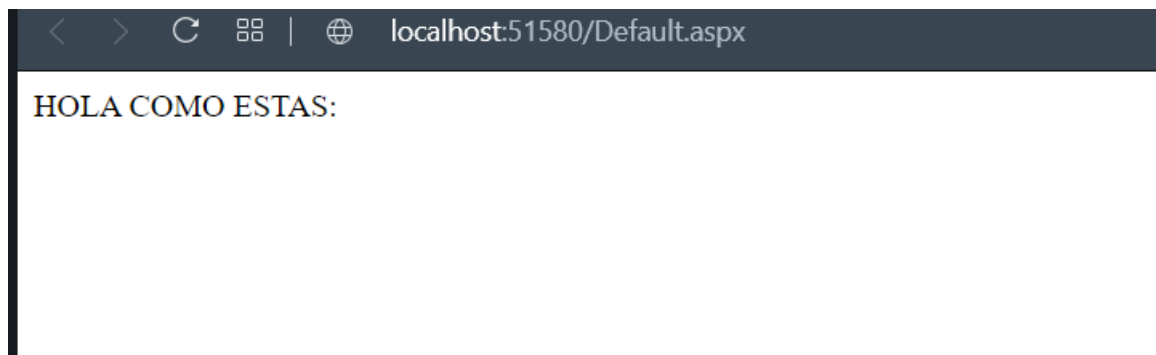
```
</form>
```

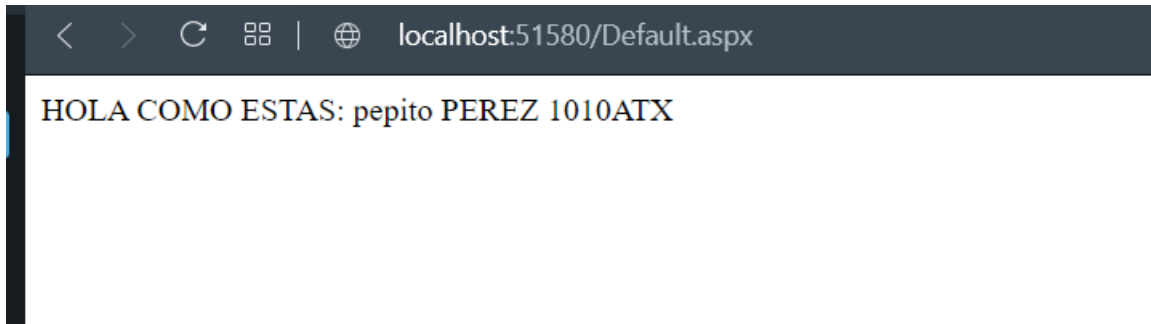
```
e.log x ej1.php x
<form method="get" action ="http://localhost:51580/Default.aspx">
    Nombre <input type="text" name="nombre"/><br/>
    Apellido<input type="text" name="apellido"/><br/>
    codigo<input type="text" name="codigo"/><br/>
    <input type="submit" name="enviar"/>
</form>
```

CODIGO EN NET

```
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        string nombre, apellido,codigo;
        nombre = Request.QueryString["nombre"];
        apellido= Request.QueryString["apellido"];
        codigo = Request.QueryString["codigo"];
        Response.Write("HOLA COMO ESTAS: " + nombre + " "+ apellido+" "+codigo);
    }
}
```

```
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
        string nombre, apellido,codigo;
        nombre = Request.QueryString["nombre"];
        apellido= Request.QueryString["apellido"];
        codigo = Request.QueryString["codigo"];
        Response.Write("HOLA COMO ESTAS: " + nombre + " "+ apellido+" "+codigo);
    }
}
```





DE NET A JAVA

Código en java

```
try ( PrintWriter out = response.getWriter()) {  
    /* TODO output your page here. You may use following sample code. */  
    out.println("<!DOCTYPE html>");  
    out.println("<html>");  
    out.println("<head>");  
    out.println("<title>Servlet NewServlet</title>");  
    out.println("</head>");  
    out.println("<body>");  
    out.println("<h1>Servlet NewServlet at " + request.getContextPath() + "</h1>");  
    String nombre=request.getParameter("nombre");  
    String apellido=request.getParameter("apellido");  
    String codigo=request.getParameter("codigo");  
    out.println("HOLAA "+nombre+ " " +apellido+" "+codigo);  
    out.println("</body>");  
    out.println("</html>");  
}
```

```
28 */
29 protected void processRequest(HttpServletRequest request, HttpServletResponse response)
30     throws ServletException, IOException {
31     response.setContentType("text/html;charset=UTF-8");
32     try (PrintWriter out = response.getWriter()) {
33         /* TODO output your page here. You may use following sample code. */
34         out.println("<!DOCTYPE html>");
35         out.println("<html>");
36         out.println("<head>");
37         out.println("<title>Servlet NewServlet</title>");
38         out.println("</head>");
39         out.println("<body>");
40         out.println("<h1>Servlet NewServlet at " + request.getContextPath() + "</h1>");
41         String nombre=request.getParameter("nombre");
42         String apellido=request.getParameter("apellido");
43         String codigo=request.getParameter("codigo");
44         out.println("HOLAA " +nombre+ " " +apellido+" "+codigo);
45         out.println("</body>");
46         out.println("</html>");
47     }
48 }
```



Código en net

```
public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }
    protected void Button1_Click(object sender, EventArgs e)
    {
        String nombre = TextBox1.Text;
        String apellido = TextBox2.Text;
        String codigo= TextBox3.Text;

        Response.Redirect("http://localhost:8090/mavenproject1/NewServlet?nombre="+nombre+"&
apellido="+apellido+"&codigo="+codigo);
    }
}
```

```
using System.Linq;
using System.Web;
using System.Web.UI;
using System.Web.UI.WebControls;

public partial class _Default : System.Web.UI.Page
{
    protected void Page_Load(object sender, EventArgs e)
    {
    }

    protected void Button1_Click(object sender, EventArgs e)
    {
        String nombre = TextBox1.Text;
        String apellido = TextBox2.Text;
        String codigo = TextBox3.Text;
        Response.Redirect("http://localhost:8090/mavenproject1/NewServlet?nombre="+nombre+"&apellido="+apellido+"&codigo="+codigo);
    }
}
```

< > ↺ ☐ | 🌐 localhost:54517/Default.aspx

Button	pedro	castillo	1002THT
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< > ↺ ☐ | 🌐 localhost:8090/mavenproject1/NewServlet

Servlet NewServlet at /mavenproject1

HOLAA pedro castillo 1002THT