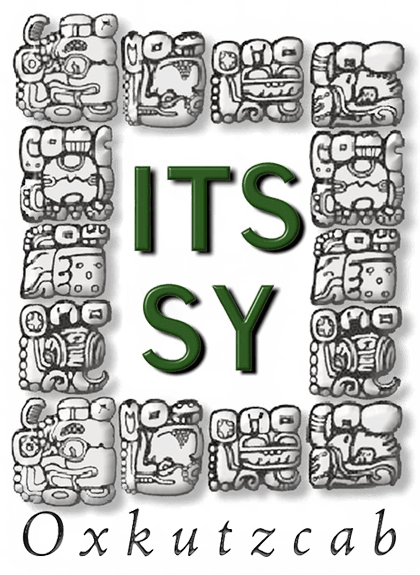


****

**INSTITUTO TECNOLÓGICO SUPERIOR DEL SUR**

**DEL ESTADO DE YUCATÁN**

**CARRERA:**

INGENIERÍA EN SISTEMAS COMPUTACIONALES

**GRADO:** NOVENO SEMESTRE **GRUPO:** A

**ASIGNATURA:**

PROCESO PERSONALES PARA EL DESARROLLO

**DOCENTE:**

CESAR ZENET LÓPEZ CRUZ

**PSP1 EJEMPLO 6**

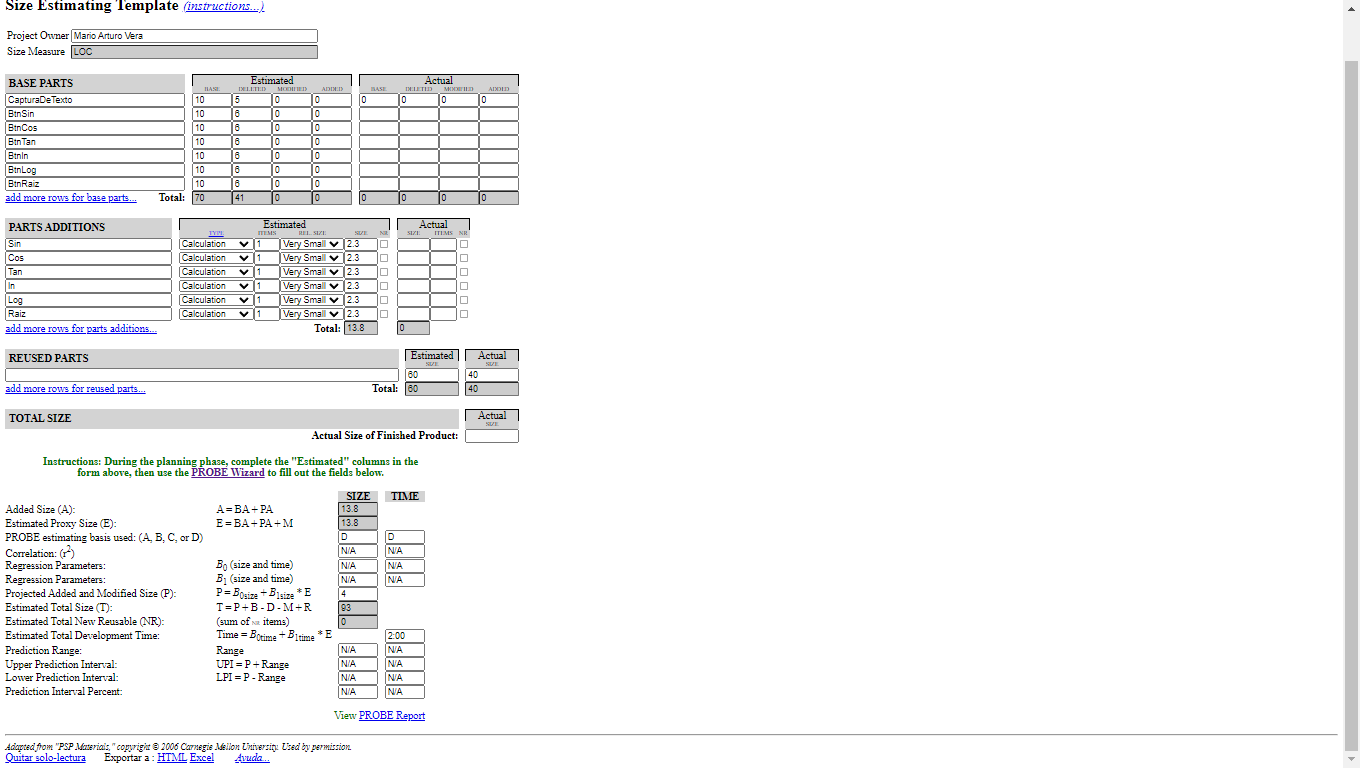
**ALUMNO:**

MARIO ARTURO VERA MOO

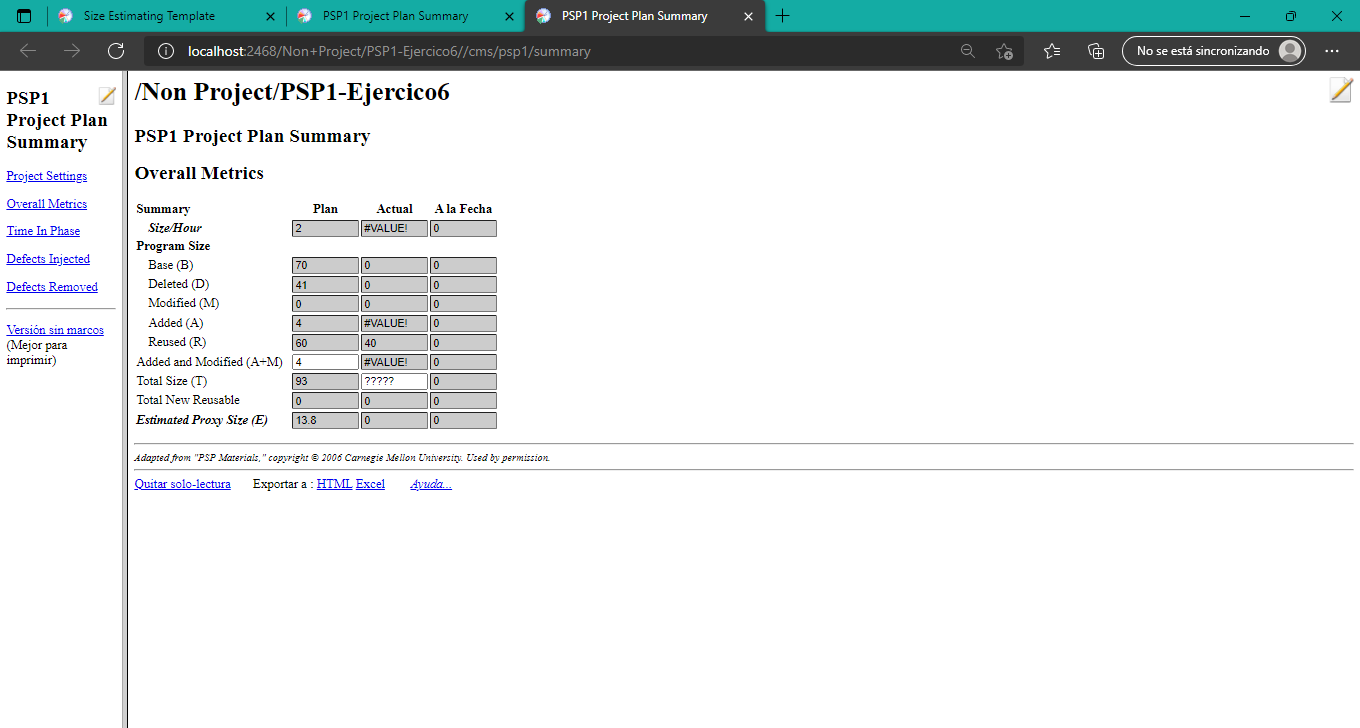
**FECHA DE ENTREGA:**

MIERCOLES, 3 DE NOVIEMBRE DE 2021

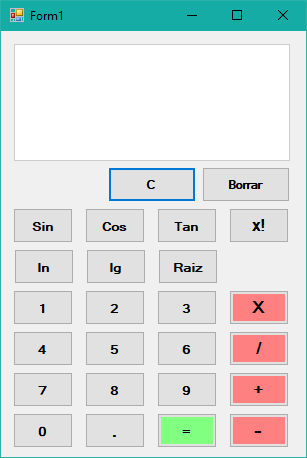
**SIZE ESTIMATING TEMPLATE**



**PLANEACIÓN INICIAL**



**DISEÑO**



**CODIGO**

using System;

using System.Collections.Generic;

using System.ComponentModel;

using System.Data;

using System.Drawing;

using System.Linq;

using System.Text;

using System.Threading.Tasks;

using System.Windows.Forms;

namespace Calculadora

{

public partial class Form1 : Form

{

public Form1()

{

InitializeComponent();

}

string textoenpantalla = "";

Double NumeroUno;

Double NumeroDos;

String Operacion;

private void Btnuno\_Click(object sender, EventArgs e)

{

string uno = "1";

txtPantalla.Text = txtPantalla.Text + "1";

}

private void Btndos\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + "2";

}

private void Btntres\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + "3";

}

private void Btncuadro\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + "4";

}

private void Btncinco\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + "5";

}

private void BtnSeis\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + "6";

}

private void Btnsiete\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + "7";

}

private void Btnocho\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + "8";

}

private void Btnnueve\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + "9";

}

private void Btncero\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + "0";

}

private void Btnpuntodecimal\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text + ".";

}

private void Btnigual\_Click(object sender, EventArgs e)

{

//NumeroDos = Convert.ToDouble(txtPantalla.Text);

switch (Operacion)

{

case "+":

NumeroDos = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = Convert.ToString(NumeroUno + NumeroDos);

break;

case "-":

NumeroDos = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = Convert.ToString(NumeroUno - NumeroDos);

break;

case "x":

NumeroDos = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = Convert.ToString(NumeroUno \* NumeroDos);

break;

case "÷":

NumeroDos = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = Convert.ToString(NumeroUno / NumeroDos);

break;

case "Sin":

txtPantalla.Text = Convert.ToString(Math.Sin(NumeroUno));

break;

case "Cos":

txtPantalla.Text = Convert.ToString(Math.Cos(NumeroUno));

break;

case "Tan":

txtPantalla.Text = Convert.ToString(Math.Tanh(NumeroUno));

break;

case "Raiz":

txtPantalla.Text = Convert.ToString(Math.Sqrt(NumeroUno));

break;

case "ln":

txtPantalla.Text = Convert.ToString(Math.Log(NumeroUno));

break;

case "log":

txtPantalla.Text = Convert.ToString(Math.Log10(NumeroUno));

break;

case "!":

byte num, i;

long result = 1;

num = Convert.ToByte(NumeroUno);

for (i = 2; i <= num; i++)

{

result = result \* i;

}

txtPantalla.Text = Convert.ToString(result);

break;

}

}

private void btnMulpliacion\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "x";

Operacion = "x";

txtPantalla.Clear();

}

private void btnDivision\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "/";

Operacion = "÷";

txtPantalla.Clear();

}

private void btnSuma\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "+";

txtPantalla.Clear();

}

private void butnResta\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "-";

Operacion = "-";

txtPantalla.Clear();

}

private void BtnBorrar\_Click(object sender, EventArgs e)

{

txtPantalla.Text = txtPantalla.Text.Remove(txtPantalla.Text.Length - 1);

}

private void BtnLimpiar\_Click(object sender, EventArgs e)

{

txtPantalla.Clear();

}

private void Form1\_Load(object sender, EventArgs e)

{

}

private void BtnSeno\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = "Sin("+ txtPantalla.Text+")";

Operacion = "Sin";

txtPantalla.Clear();

txtPantalla.Text = "Sin(" + NumeroUno + ")";

}

private void BtnCoseno\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "Cos";

Operacion = "Cos";

txtPantalla.Clear();

txtPantalla.Text = "Cos(" + NumeroUno + ")";

}

private void BtnTangente\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "Tan";

Operacion = "Tan";

txtPantalla.Clear();

txtPantalla.Text = "Tan(" + NumeroUno + ")";

}

private void BtnRaiz\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "Raiz";

Operacion = "Raiz";

txtPantalla.Clear();

txtPantalla.Text = "√" + NumeroUno + "";

}

private void BtnLog\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "log";

Operacion = "log";

txtPantalla.Clear();

txtPantalla.Text = "Log(" + NumeroUno + ")";

}

private void BtnLogaritmonatural\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "ln";

Operacion = "ln";

txtPantalla.Clear();

txtPantalla.Text = "ln(" + NumeroUno + ")";

}

private void BtnFactorial\_Click(object sender, EventArgs e)

{

NumeroUno = Convert.ToDouble(txtPantalla.Text);

txtPantalla.Text = txtPantalla.Text + "!";

Operacion = "!";

txtPantalla.Clear();

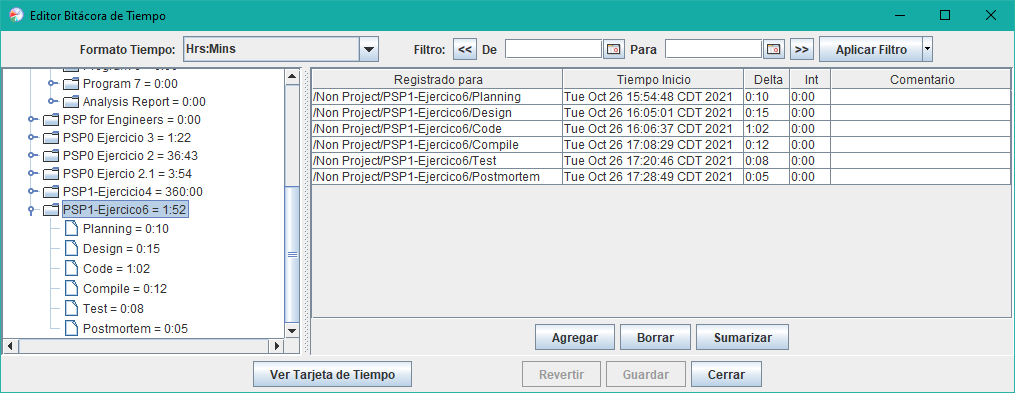
txtPantalla.Text = "!" + NumeroUno + "";

}

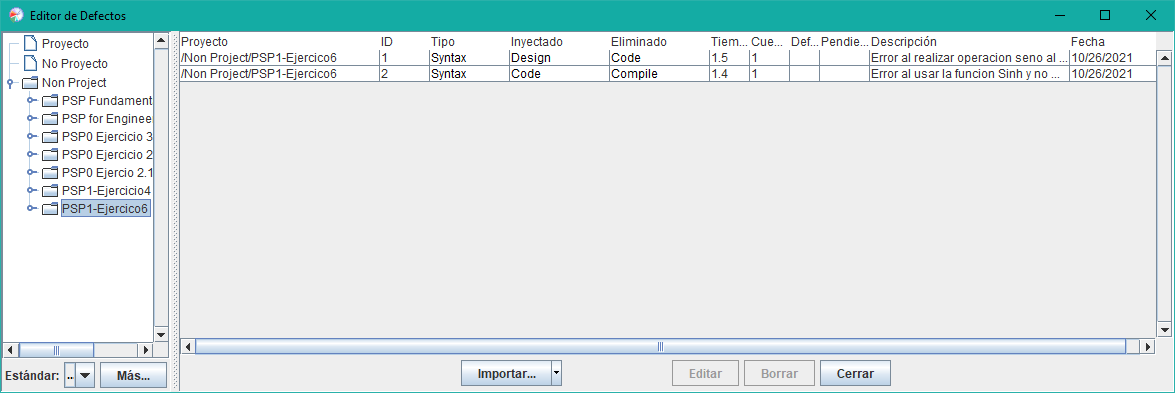
}

}

**BITACORA DE TIEMPO**



**BITACORA DE DEFECTOS**



**TESTREPORT**

|  |  |  |  |
| --- | --- | --- | --- |
| Name | Mario Arturo Vera | Date | 26/10/2021 |
| Project/Task | /Non Project/PSP1-Ejercicio6 | | |

|  |  |
| --- | --- |
| Test Name/# | Calcular Seno |
| **Test Objective** | Calcular el seno de un Angulo |
| **Test Description** | Deberá ingresar primeramente el numero al calcular el seno seguidamente presiona el botón **Sin** |
| **Test Conditions** | Primero Deberá ingresar un numero luego presionar la operación Sin |
| **Expected Results** | Sin(8)= 0.989358246 |
| **Actual Results** |  |

**PIP**

**Process Improvement Proposal (PIP)**

|  |  |  |  |  |
| --- | --- | --- | --- | --- |
| Name | Mario Arturo Vera | | Date | 26/10/2021 |
| Project/Task | /Non Project/PSP1-Ejercicio6 | | | |
| Process | PSP1 | Elements |  | |

## PIP # Problem Description

1. Problemas al realizar la operación de calcular el seno ya que había utilizado la operación Math.Sinh(NumeroUno)y daba otro resultado ya que me confudi por que la función era Math.Sin(NumeroUno)

## PIP # Proposal Description

1. Investigar sobre math

## Notes and Comments

**PLANEACIÓN FINAL**

