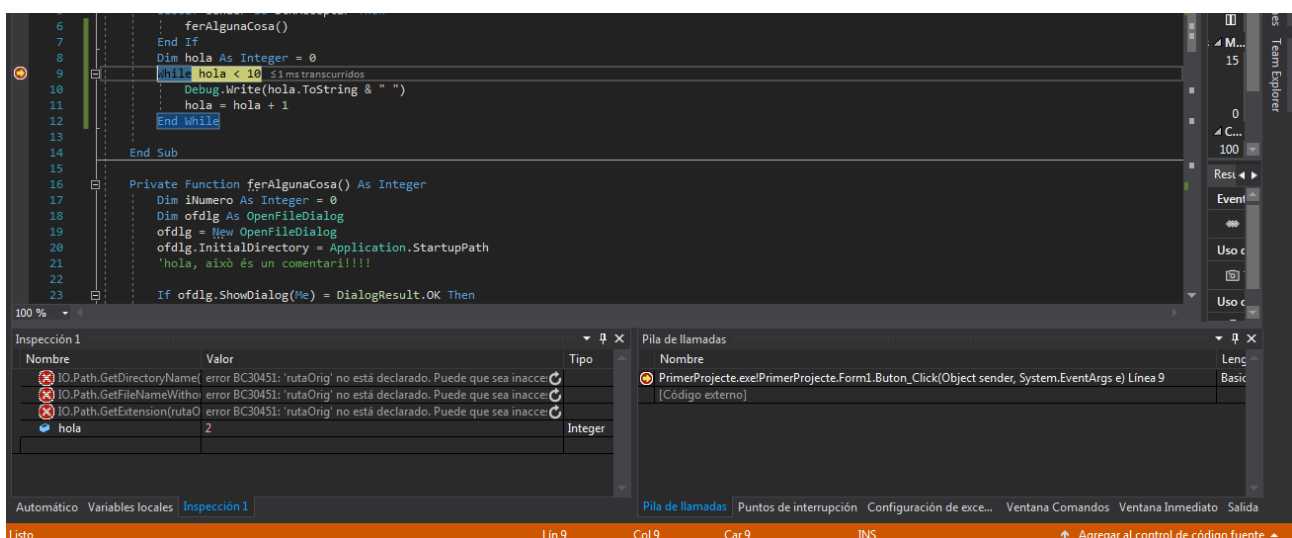
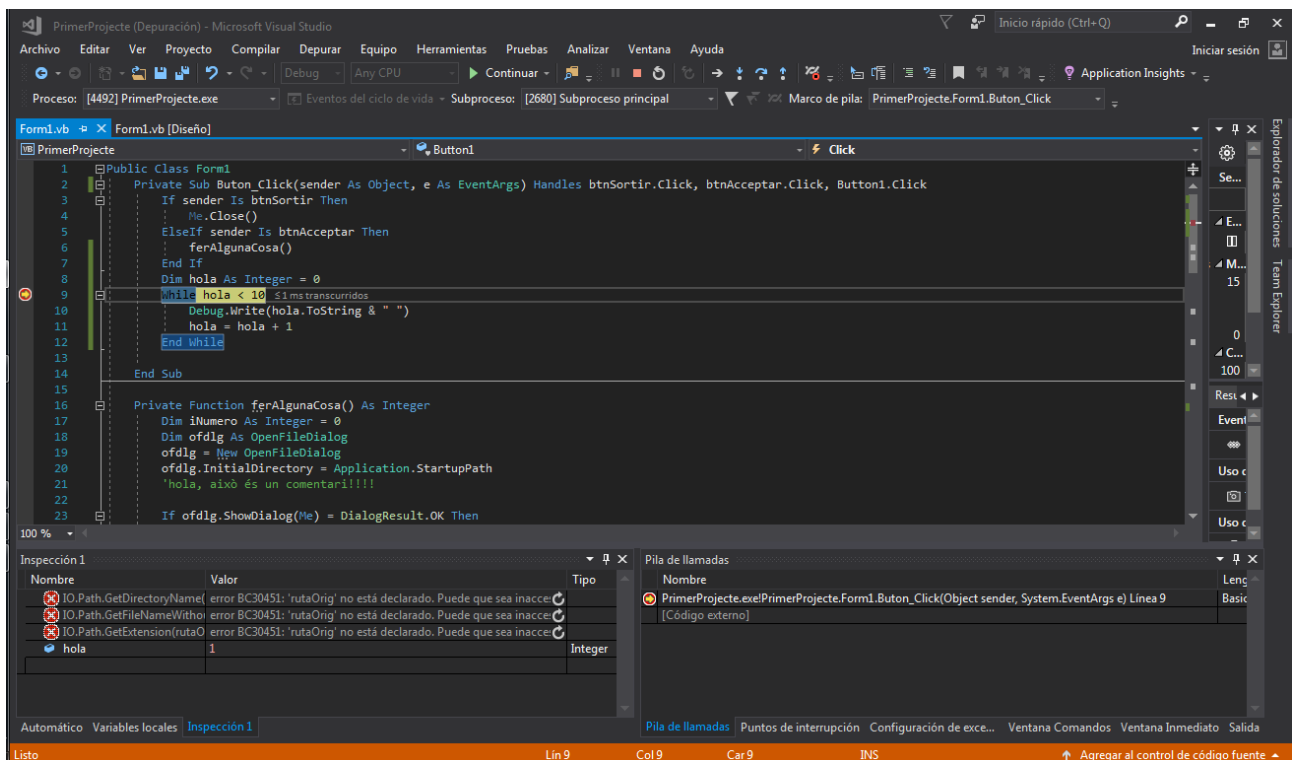


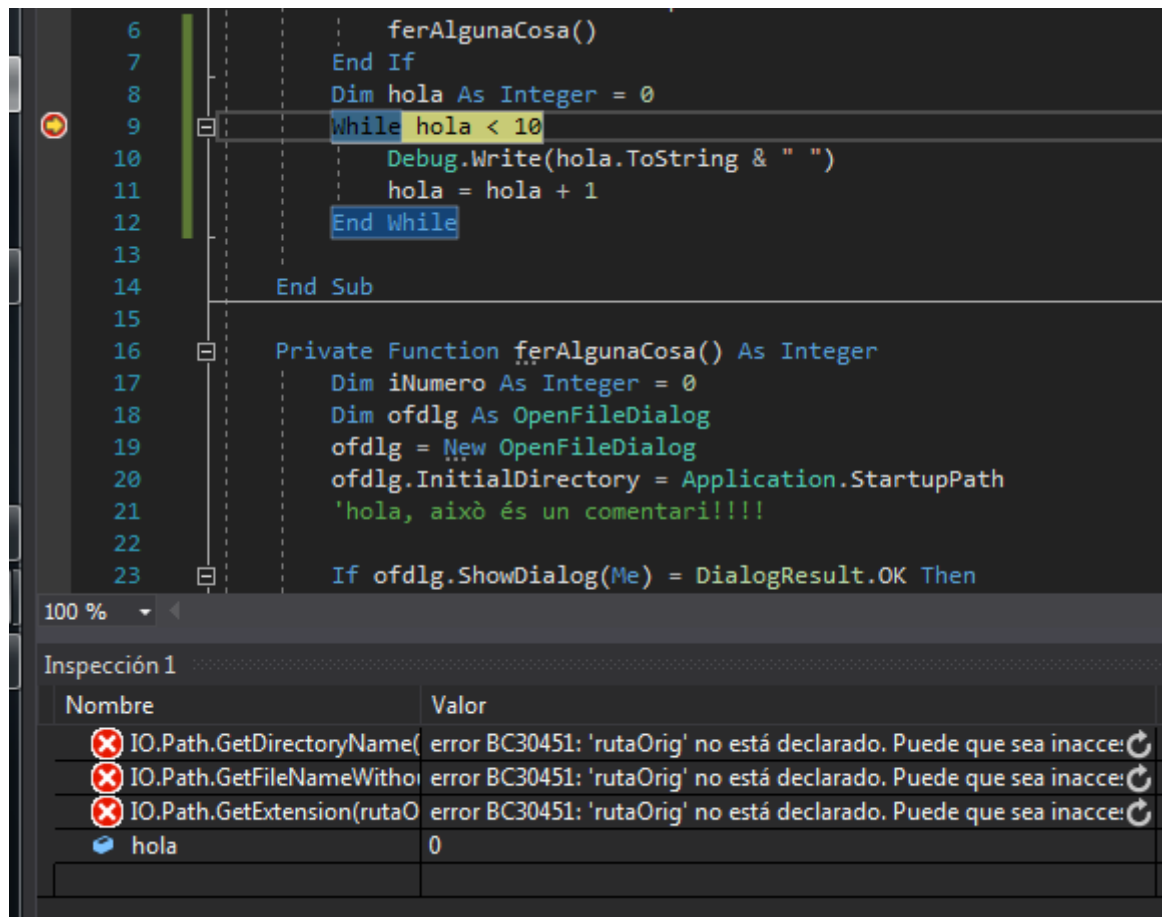
Activitat 1. Eines de Depuració

Crea un programa amb el Visual Studio que demani la ruta d'una determinada carpeta i recorri tota la carpeta cercant les imatges que hi hagi i generant-ne un thumbnail d'aquesta imatge (Si el nom de la imatge és img.jpg el thumbnail hauria de dir-se img.th.jpg i s'hauria de guardar en una subcarpeta de nom **thumb** que estigui dins de la carpeta origen. (Caldrà fer petites modificacions del programet que vam fer a classe)

1. Estableix un punt d'interrupció a la capçalera del bucle per a llegir els fitxers. Observa que es deté en cada iteració



2. **Agrega una inspecció que permeti observar la ruta del fitxer que tocarà tractar en aquell moment.**

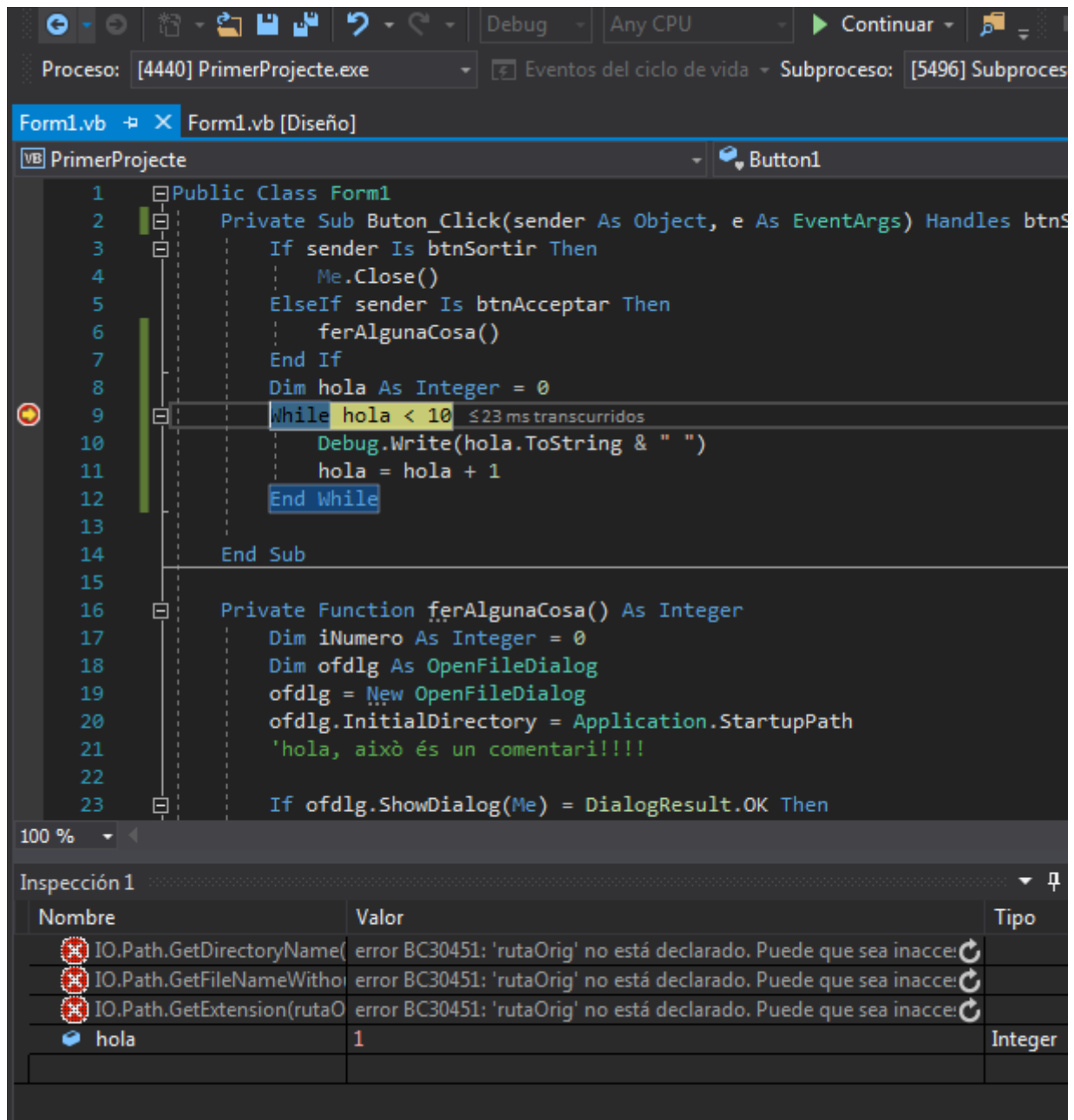


```
6      ferAlgunaCosa()  
7  End If  
8  Dim hola As Integer = 0  
9  While hola < 10  
10     Debug.Write(hola.ToString & " ")  
11     hola = hola + 1  
12 End While  
13  
14 End Sub  
15  
16 Private Function ferAlgunaCosa() As Integer  
17     Dim iNumero As Integer = 0  
18     Dim ofdlg As OpenFileDialog  
19     ofdlg = New OpenFileDialog  
20     ofdlg.InitialDirectory = Application.StartupPath  
21     'hola, això és un comentari!!!!  
22  
23     If ofdlg.ShowDialog(Me) = DialogResult.OK Then
```

100 %

Inspección 1

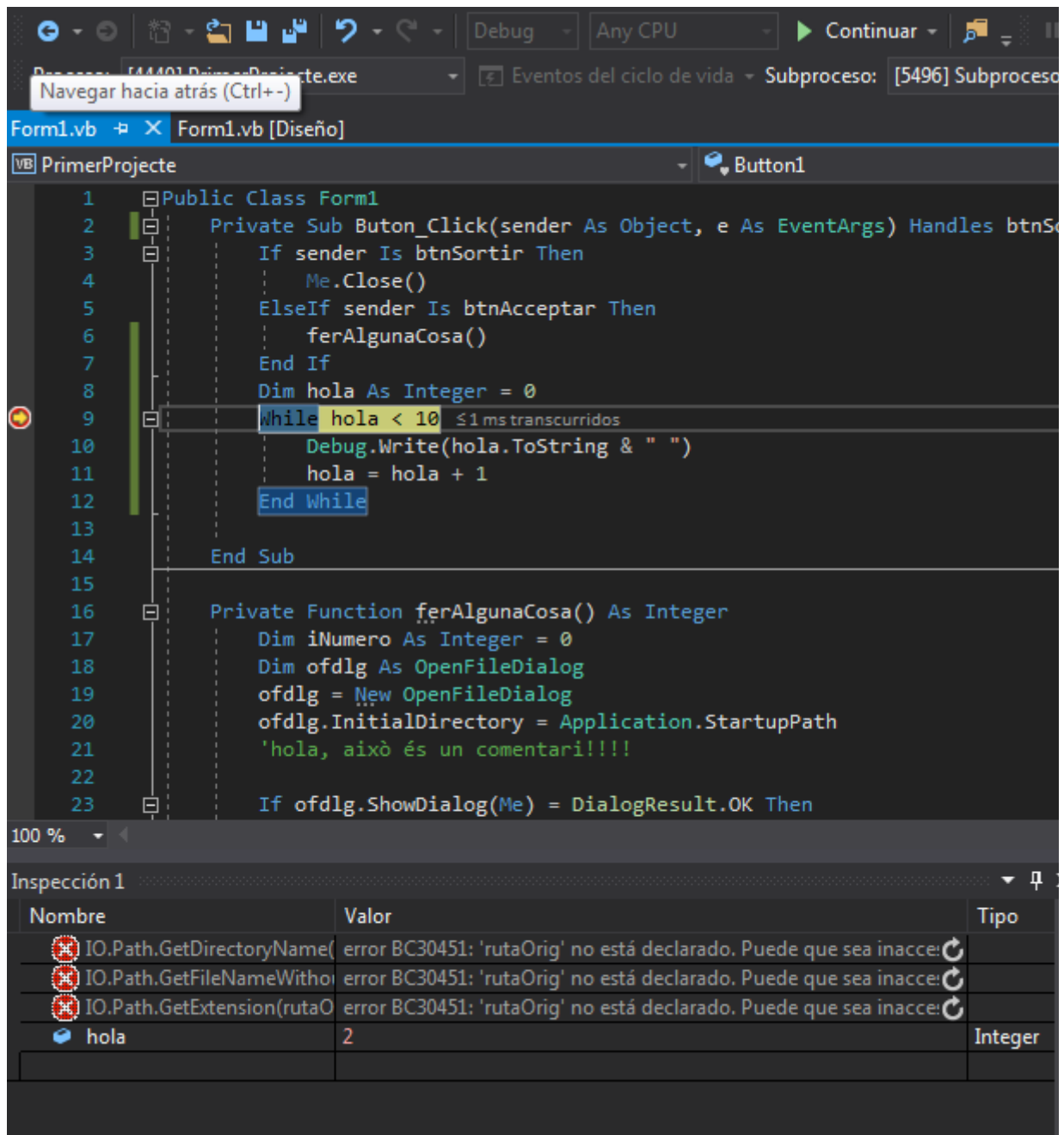
Nombre	Valor
✗ IO.Path.GetDirectoryName(rutaOrig)	error BC30451: 'rutaOrig' no está declarado. Puede que sea inaccesible. ↺
✗ IO.Path.GetFileNameWithoutExtension(rutaOrig)	error BC30451: 'rutaOrig' no está declarado. Puede que sea inaccesible. ↺
✗ IO.Path.GetExtension(rutaOrig)	error BC30451: 'rutaOrig' no está declarado. Puede que sea inaccesible. ↺
🔵 hola	0



The screenshot shows the Visual Studio IDE with a VB.NET project named 'PrimerProjecte'. The code is in 'Form1.vb' and is in 'Diseño' (Design) view. The code defines a 'Public Class Form1' with a 'Private Sub Buton_Click' method. Inside the method, there is an 'If' statement with two branches: 'If sender Is btnSortir Then' which calls 'Me.Close()', and 'ElseIf sender Is btnAceptar Then' which calls 'ferAlgunaCosa()'. After the 'If' statement, a variable 'hola' is declared as 'Integer' and initialized to 0. A 'While' loop is then entered, with the condition 'hola < 10'. Inside the loop, 'Debug.Write' is called with 'hola.ToString & " "', and 'hola' is incremented by 1. The loop ends with 'End While'. Below the 'Buton_Click' method, there is a 'Private Function ferAlgunaCosa()' which declares 'iNumero' as 'Integer' and 'ofd' as 'OpenFileDialog'. It then creates a new 'OpenFileDialog' object, sets its 'InitialDirectory' to 'Application.StartupPath', and has a comment 'hola, això és un comentari!!!!'. The function ends with 'If ofd.ShowDialog(Me) = DialogResult.OK Then'.

The 'Inspección 1' (Inspect 1) window is open at the bottom, showing a table of variables and their values. The table has three columns: 'Nombre' (Name), 'Valor' (Value), and 'Tipo' (Type). The variables shown are 'IO.Path.GetDirectoryName', 'IO.Path.GetFileNameWithoutExtension', 'IO.Path.GetExtension(rutaO', and 'hola'. The 'hola' variable has a value of 1 and is of type Integer.

Nombre	Valor	Tipo
IO.Path.GetDirectoryName	error BC30451: 'rutaOrig' no está declarado. Puede que sea inacce:	
IO.Path.GetFileNameWithoutExtension	error BC30451: 'rutaOrig' no está declarado. Puede que sea inacce:	
IO.Path.GetExtension(rutaO	error BC30451: 'rutaOrig' no está declarado. Puede que sea inacce:	
hola	1	Integer



The screenshot shows the Visual Studio IDE with a VB.NET code file named `Form1.vb` in design mode. The code defines a `Form1` class with a `Buton_Click` event handler and a `ferAlgunaCosa` function. The `Buton_Click` handler contains a `While` loop that increments a variable `hola` until it reaches 10, with a `Debug.WriteLine` statement. The `ferAlgunaCosa` function is a private function that takes no arguments and returns an `Integer`. It declares a variable `iNumero` and an `OpenFileDialog` object, sets the initial directory to the application's startup path, and shows the dialog. The `Debug` window at the bottom shows three error messages related to the `IO.Path` namespace and the variable `hola`.

```
1 Public Class Form1
2     Private Sub Buton_Click(sender As Object, e As EventArgs) Handles btnSo
3         If sender Is btnSortir Then
4             Me.Close()
5         ElseIf sender Is btnAceptar Then
6             ferAlgunaCosa()
7         End If
8         Dim hola As Integer = 0
9         While hola < 10
10            Debug.WriteLine(hola.ToString & " ")
11            hola = hola + 1
12        End While
13    End Sub
14
15    Private Function ferAlgunaCosa() As Integer
16        Dim iNumero As Integer = 0
17        Dim ofdlg As OpenFileDialog
18        ofdlg = New OpenFileDialog
19        ofdlg.InitialDirectory = Application.StartupPath
20        'hola, això és un comentari!!!!
21
22        If ofdlg.ShowDialog(Me) = DialogResult.OK Then
```

100 %

Inspección 1

Nombre	Valor	Tipo
IO.Path.GetDirectoryName(error BC30451: 'rutaOrig' no está declarado. Puede que sea inacce:	
IO.Path.GetFileNameWitho	error BC30451: 'rutaOrig' no está declarado. Puede que sea inacce:	
IO.Path.GetExtension(rutaO	error BC30451: 'rutaOrig' no está declarado. Puede que sea inacce:	
hola	2	Integer

Form1.vb [Diseño] Button1

PrimerProyecto

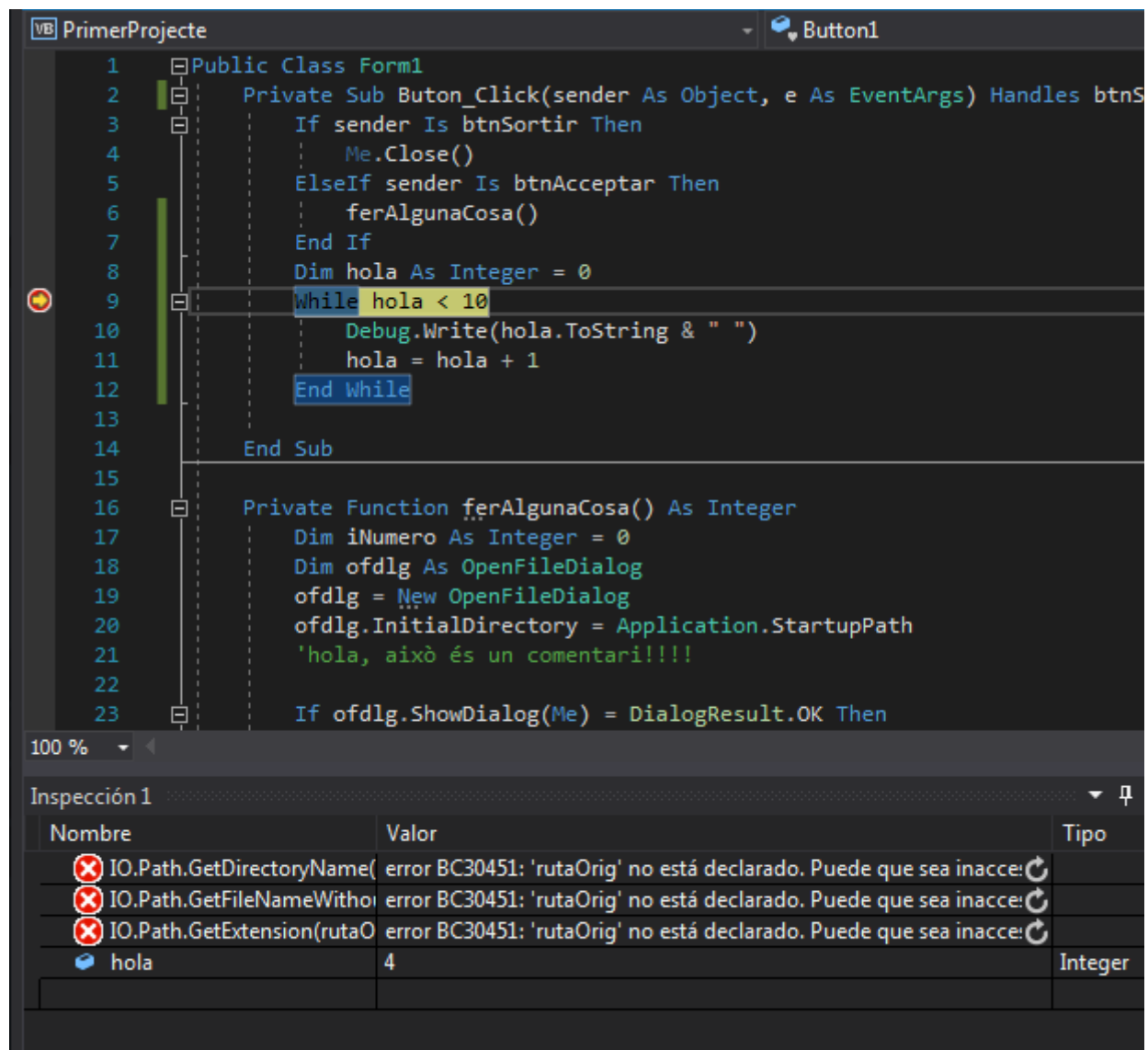
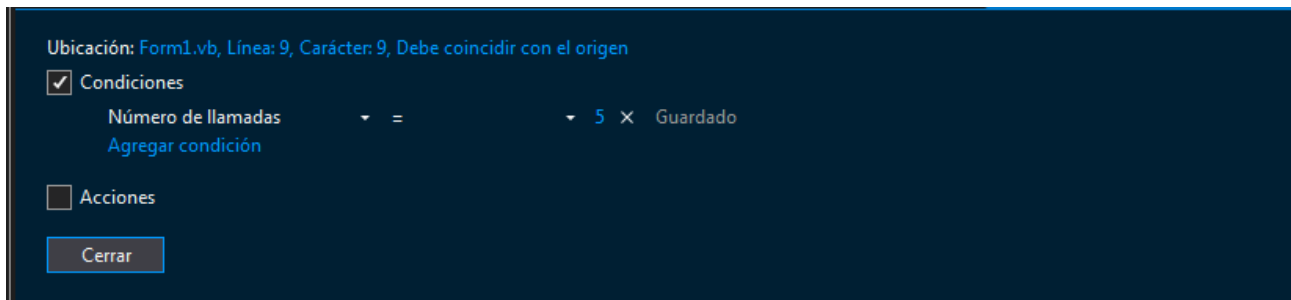
```
1 Public Class Form1
2     Private Sub Buton_Click(sender As Object, e As EventArgs) Handles
3         If sender Is btnSortir Then
4             Me.Close()
5         ElseIf sender Is btnAceptar Then
6             ferAlgunaCosa()
7         End If
8         Dim hola As Integer = 0
9         While hola < 10 < 1 ms transcurridos
10            Debug.Write(hola.ToString & " ")
11            hola = hola + 1
12        End While
13    End Sub
14
15    Private Function ferAlgunaCosa() As Integer
16        Dim iNumero As Integer = 0
17        Dim ofdlg As OpenFileDialog
18        ofdlg = New OpenFileDialog
19        ofdlg.InitialDirectory = Application.StartupPath
20        'hola, això és un comentari!!!!
21
22        If ofdlg.ShowDialog(Me) = DialogResult.OK Then
```

100 %

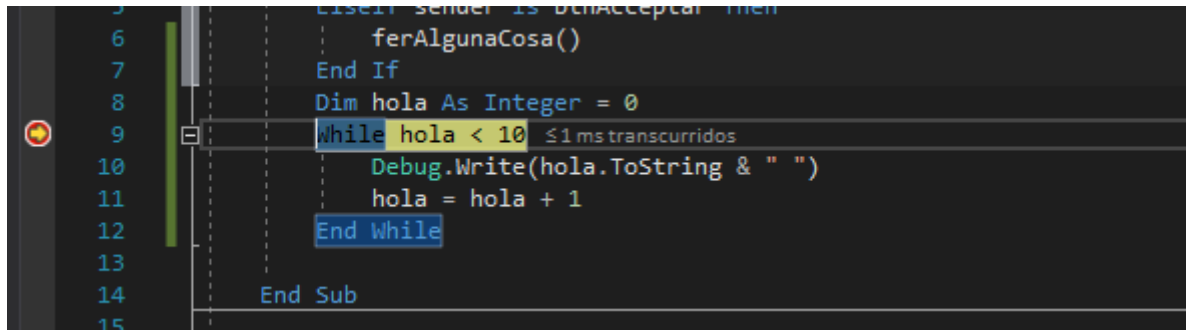
Inspección 1

Nombre	Valor	Tip
IO.Path.GetDirectoryNames(error BC30451: 'rutaOrig' no está declarado. Puede que sea inacce:	
IO.Path.GetFileNameWitho	error BC30451: 'rutaOrig' no está declarado. Puede que sea inacce:	
IO.Path.GetExtension(rutaO	error BC30451: 'rutaOrig' no está declarado. Puede que sea inacce:	
hola	3	Int

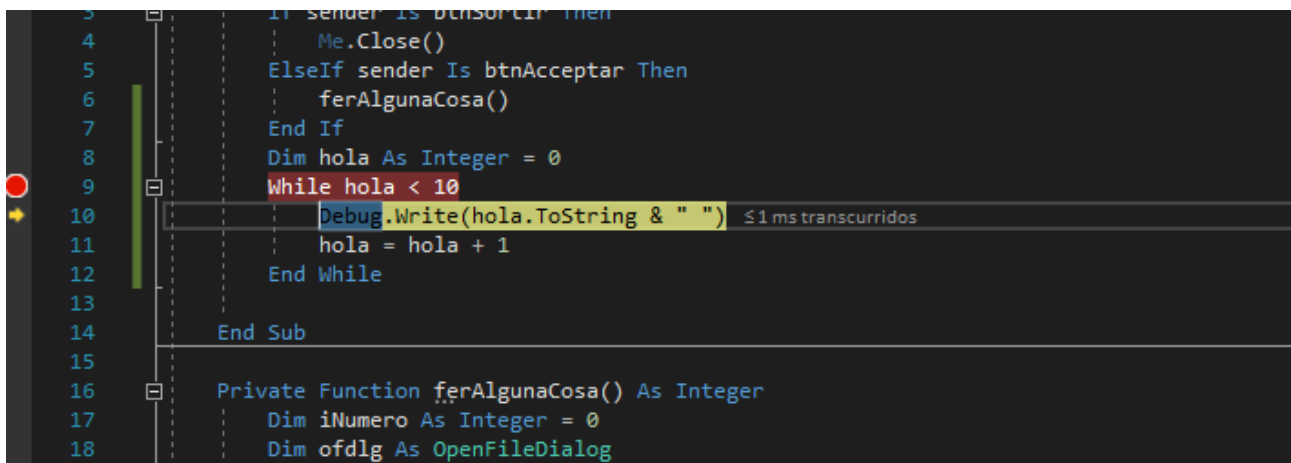
3. Defineix un punt d'interrupció amb un condicional si es tracta de la segona imatge



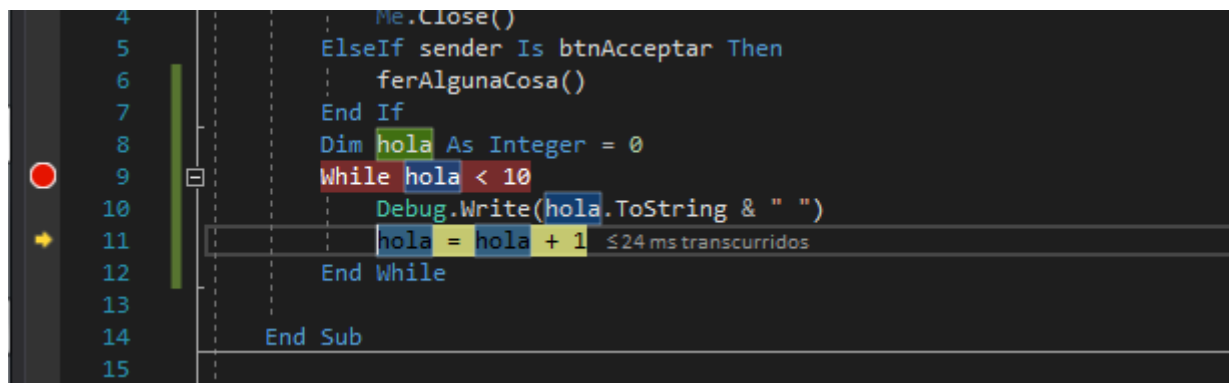
4. Depura el programa pas a pas (F11) i observa com és el flux d'execució en la línia de declaració del bucle i com va executant les diferents parts de l'esmentada línia.



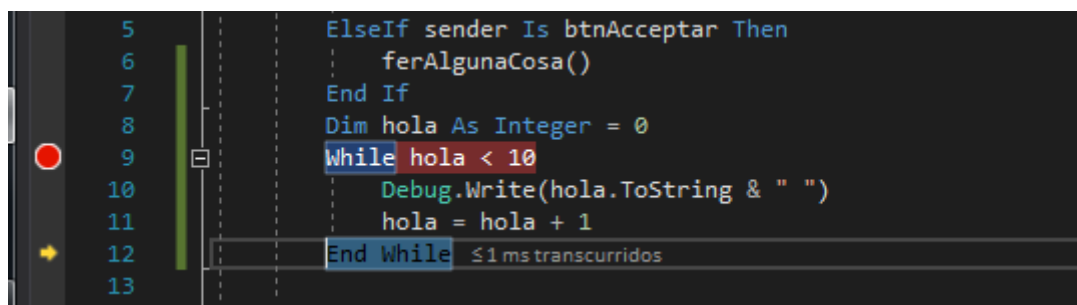
```
5      ElseIf sender Is btnAceptar Then
6          ferAlgunaCosa()
7      End If
8      Dim hola As Integer = 0
9      While hola < 10
10         Debug.Write(hola.ToString & " ")
11         hola = hola + 1
12     End While
13
14 End Sub
```



```
3      If sender Is btnSortir Then
4          Me.Close()
5      ElseIf sender Is btnAceptar Then
6          ferAlgunaCosa()
7      End If
8      Dim hola As Integer = 0
9      While hola < 10
10         Debug.Write(hola.ToString & " ")
11         hola = hola + 1
12     End While
13
14 End Sub
15
16 Private Function ferAlgunaCosa() As Integer
17     Dim iNumero As Integer = 0
18     Dim ofdlg As OpenFileDialog
```



```
4      Me.Close()
5      ElseIf sender Is btnAceptar Then
6          ferAlgunaCosa()
7      End If
8      Dim hola As Integer = 0
9      While hola < 10
10         Debug.Write(hola.ToString & " ")
11         hola = hola + 1
12     End While
13
14 End Sub
15
```



```
5      ElseIf sender Is btnAceptar Then
6          ferAlgunaCosa()
7      End If
8      Dim hola As Integer = 0
9      While hola < 10
10         Debug.Write(hola.ToString & " ")
11         hola = hola + 1
12     End While
13
```

5. Escriu el codi necessari per establir un punt de ruptura manual, estableix a més un punt d'interrupció a la línia que deté el programa. Observa què passa.

