

- Attendance/download Day05 from D2L
- •PowerPoint with Illustrations:
 - New object
 - Panel
 - To make colored rectangles
 - Objects in a panel inherit relative location and visibility
 - Brief demo
 - New structure
 - Array: lists of values, strings, or objects
 - For values and strings, can use ListBoxes or Arrays
 - Access item in a ListBox: ListBox_name.Items(row)
 - For an Array, declare it with
 - •Dim Array_name(number_of_items) as Integer (or Decimal or String)
 - Access item in an Array with Array name(row)
 - Brief demo
 - •For objects, MUST use an Array
 - Design the objects
 - •In form1.Load, assign the objects into the Array
 - •Refer to the Array throughout the rest of the code
 - •Intellisense will NOT help you type!
- Demo Problem: PanelArray
- Practice Problem: PanelArrayBlinking

CSC317 Visual Programming: Day 05 Demo Project: PanelArray CODE

```
Public Class Form1
   Public ticks As Integer 'number of ticks of the clock
   Public p(4) As Panel

Private Sub Form1_Load(ByVal sender As Object, ByVal e As
System.EventArgs) Handles Me.Load
   p(0) = Panel1
   p(1) = Panel2
   p(2) = Panel3
   p(3) = Panel4
   p(4) = Panel5

ticks = 0 'just beginning
End Sub
```



End Class

CSC317 Visual Programming: Day 05 Demo Project: PanelArray CODE

```
Private Sub tmr1 Tick(ByVal sender As Object, ByVal e As System.EventArgs)
Handles tmr1.Tick
        Dim i As Integer 'to loop through array
        If ticks = 1 Then 'line up all panels in the array
            For i = 0 To 4
                p(i).Top = 50 + 75 * i
                p(i).Left = 50
            Next
        ElseIf ticks > 6 Then 'go back to the starting line
            ticks = 0
        Else 'move all panels in the array
            For i = 0 To 4
                p(i).Left += 100
            Next
        End If
        ticks += 1
    End Sub
```



- Your design should include 5 panels with different colors located in various random starting locations
- As with the PanelArray project, line them all up on the left at the beginning and again every 5 ticks of a timer
- Have the panels move to the right, as with PanelArray, but with "attitude" – that is, random variations East-West and North-South
- Take turns "round-robin" blinking the panels in each tick of the timer
- •Adjust the motion and the random variation to give a reasonable fit to the instructor's version!