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'-----Title-----  
  
' File.....array1.pbp  
' Started....4/22/08  
' Microcontroller used:  Microchip Technology 16F88  
'                          microchip.com  
' PBPPro Code, micro-Engineering Labs, Inc.  
'                          melabs.com  
  
'-----Program Description-----  
  
' The program creates two 6 element arrays. The first LCD row displays  
' the first array, the counter variable, x[c0] = c0 and the second LCD  
' row displays the second array, the counter variable doubled, y[c0] =  
' c0*2.  
  
'-----Variables-----  
  
    c0      VAR    BYTE    ' Byte for counter  
    x       VAR    BYTE[6] ' BYTE for each of 6 elements  
                        ' of array x[]  
    y       VAR    BYTE[6] ' BYTE for each of 6 elements  
                        ' of array y[]  
  
'-----Initialization-----  
  
    ANSEL = 0           ' Configure all pins to digital  
                        ' operation since not using ADC  
                        ' (Analog to Digital Converter)  
  
    OSCCON = $60       ' Sets the internal oscillator in the  
                        ' 16F88 to 4 MHz  
  
'-----Main Code-----  
  
    PAUSE 1000         ' 1 second PAUSE to allow LCD to setup  
  
    FOR c0 = 0 TO 5    ' FOR..NEXT loop to create 6 entries in  
                        ' each array  
  
    x[c0] = c0         ' Assign value of c0 to each array element  
                        ' in x[c0]. For example, when c0 = 1,  
                        ' x[1] = 1.  
  
    y[c0] = c0*2      ' Assign value of c0*2 to each array  
                        ' element in y[c0]. For example, when  
                        ' c0 = 1, y[1] = 2.  
  
    NEXT c0           ' Proceed to NEXT value of c0 until c0 = 5.  
  
    LCDOUT $FE,1, #x[0],$14,#x[1],$14,#x[2],$14,#x[3],$14,#x[4],$14,#x[5]  
                        ' On the first row of an LCD screen, display  
                        ' each 8-bit element of array x[c0] from  
                        ' x[0] to x[4]. A space,($14), is inserted  
                        ' between each element.
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```
LCDOUT $FE,$C0,#y[0],$14,#y[1],$14,#y[2],$14,#y[3],$14,#y[4],$14,#y[5]
      ' On the second row of an LCD screen, display
      ' each 8-bit element of array y[c0] from
      ' y[0] to y[4]. A space,($14), is inserted
      ' between each element.

PAUSE 500          ' PAUSE 500ms or 1/2 second

END
```