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// Blinky.c
//----
//Author: Maheshwar Mangat
//Release 1.0 - 22-July-2013
//-Initial Revision
// Program Description:
// This program flashes the P1.4 RED LED on the Pt-51 target board at interval of 1 sec.
// How To Test:
// 1) Download code to a 'Pt-51' target board
// 2) Run the code and if the P1.4 LED blinks, the code works
//
//
        AT89C5131A
// Target:
// Tool chain: Keil C51
// Command Line: None
//
//-----
// Include necessary header files here
#include <AT89C5131.h> // All SFR declarations for AT89C5131
// Global Declarations
//-----
 sbit LED = P1^3; //assigning label to P1^4 as "LED"
//-----
// Function prototypes
//-----
void delayms (unsigned int ms_sec);
//-----
// main() Routine
//-----
void main (void)
 P1=0\times0F7; // port pin P1.3 as output
 LED=0; //Initialise LED to 0;
 while (1) // Loop forever
     {
```

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LED=~LED; // To toggle the LED
                delayms (1);
       }
}
//-----
// Function definitions
//-----
// void delayms(unsigned int ms_sec)
// Return Value : None
// Parameters : ms_sec as a value of delay in milliseconds
void delayms(unsigned int ms_sec)
{
   unsigned int i,j;
    for (i=0;i<ms_sec;i++)</pre>
    {
            for (j=0;j<355;j++) //This loop runs 355 times which approximately gives 1ms</pre>
delay with 24MHz system clock.
               //do nothing
            }
         }
}
// End Of File
```