### In GpioSetup ()

- Set TRISA = 0x00 (Output)
- Set ANSELA = 0x00 (Digital)
- Set LATA = 0x80 (RA7 is on)

# In UserAppInitialize ()

- Set LATA = 0x80
- Set Timer0 Registers to required values
- TOCONO = 0x90 (Enable Timer, 16-bit Timer, 1:1 post-scaler)
- TOCON1 = 0x54 (F<sub>OSC</sub>/4, Asynchronous, 1:16 pre-scaler)

# While (1)

## In UserAppRun()

- Set static Delay variable to 0
- Set static intLedState variable to 0 (used to index value in array)
- Initialize au8Pattern to required values
- Increment Delay variable by 1
- Check if Delay variable reaches 500 (i.e. After 500ms Delay)

#### In UserAppRun()

- Reset Delay variable to 0 to reset it
- Read LATA to Temp variable
- Clear 6 LSB's
- Update Temp by indexing value from pattern array
- Set LATA = Temp
- Increment LedState variable by 1 to get next pattern

# Do Nothing

