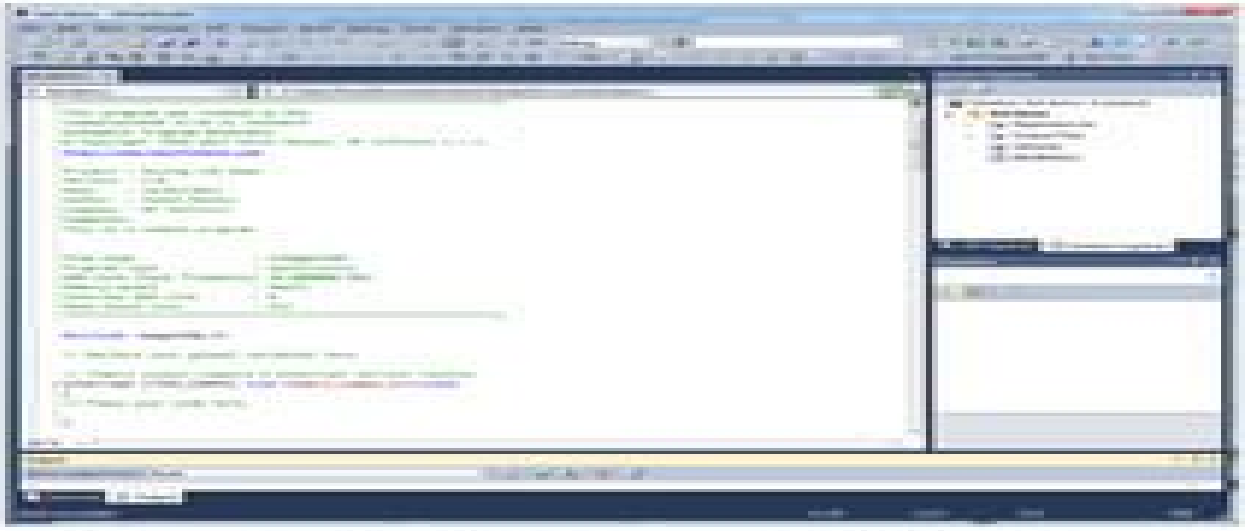
4. Editing the Source Code

The CodeWizardAVR has created all the code needed to initialize the peripherals for our application, now we must add the part of code required to execute our task: light sequentially with a 200 ms delay, each of the 8 LEDs connected to PORTD.
In order to open the project's C source file in the editor, we must double click on the **led demo.c** node in the Solution Explorer.
Once the file is loaded in the Editor window we can apply changes to it.



All the action of the program is performed by Timer 1 compare with OCR1A match interrupt service routine **timer1_compa_isr** which is called every 200 ms.
The required code will be added there, in bold text:

```
// Timer1 output compare A interrupt service routine
interrupt [TIM1_COMPA] void timer1_compa_isr(void)
{
// Place your code here

// If all LEDs are off, light the first one
if (PORTD == 0xff) PORTD = 0xfe;
// One of the LEDs is already lighted, turn it off and light the next one
else PORTD = (PORTD <<= 1) | 1;
}
```

Note: As the LEDs' anodes are connected to +5V by a resistor and the cathodes are connected to PORTD outputs, in order for them to be lighted the corresponding output must be set to logic level 0.

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Clifford Lane

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