**EE-443 LAB 8 Questions** Burak YÖRÜK

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**Question 1:** If the EnQueueUSARTbuffer() and DeQueueUSARTbuffer() functions are interrupted, we can see the wrong values ​​on the terminal screen. We must make sure that other functions do not interfere with our code. Also, increasing baudrate can also increase the error rate.

**Question 2:**

We can you determine the CPU load using the following idle loop in the main program. Because of observing time markers.

while(1)

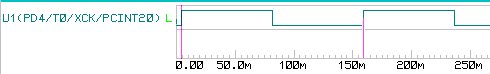
{ PORTD |= \_BV(PORTD4);   // Set timing marker.

  \_delay\_ms(50);

  PORTD &= ~\_BV(PORTD4);  // Clear timing marker.

  \_delay\_ms(50);

I measured a difference of 150 ms between two waves at PortD4. I know that the delay functions are kept 50 ms, then 100 ms used for delays. Therefore, I can say that the idle loop keeps 50 ms.

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