

**ECE 3140/CS 3420 Embedded Systems
Homework 2**

Q1. Explain the difference between polling-based input and interrupt-based input. Use a keyboard as an example.

Q2. Describe how an interrupt service routine differs from a normal subroutine call. Please include: 1) what the intended use is; 2) how it is invoked; 3) how the code is accessed; 4) how state is preserved, as needed; 5) how execution resumes where it left off after the subroutine/ISR completes. Arrange your response in a comparative table as follows:

	Subroutine	ISR
...
<i>How is it invoked?</i>	<Explanation here>	<Explanation here>
<i>How is the code's entry point specified?</i>	<Explanation here>	<Explanation here>
...