## Lab 5

### Signal Generation on External Device





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Interface with some of devices that are not parts of myRIO box.

DIO pins will be used to blink an LED



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## Learn how to create periodic real time tasks for blinking an external LED



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Blinking an external LED using a periodic real time task

- ① Add a variable to represent DIO channel
- 2 Assign names of registers
- ③ Create a template project in your work space
- ④ Adjust the time period
- ⑤ Compile and run the program and show the result to

your TA



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Blinking an external LED using a threaded periodic real

time task

① Create a template project in your workspace

2 Use a threaded task to repeat what is done in part 1

③ Compile and run the program

4 Show the result to your TA



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### Marking Scheme

- Show me the result during the lab
- Send me your code to lic222@mcmaster.ca
- One email per group, please also include your name and student number
  - Part 1 (50%)
    Part 2 (50%)



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Many problems can be resolved using the instruction of lab3 and lab4. Please read them again very carefully before lab 5.





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# Thank you!



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