

CMPE 240 Cross Interrupt Demo Checklist

Name: _____

Reviewed by: _____

Date: _____

Verification Sequence:

Overall requirement – on the failure steps 7 and 9 the red LED must light up within about 2 seconds.

1. Observe build and download of project code.
2. Verify correct cross connection (PA0 to PB7 and PA1 to PB6).
3. Press the reset button on the board and observe that the green LED lights with no observable delay.
4. Press the down button on the joystick.
5. Observe that the green LED remains on or flashes off briefly.
6. Disconnect the jumper to PB7 and press the down button.
7. Observe that green LED turns off immediately and that the red LED turns on.
8. Reconnect the jumper, press the down button, and observe that the red LED turns off immediately and the green LED turns on.
9. Disconnect the jumper to PB6 and press the down button.
10. Observe that green LED turns off immediately and that the red LED turns on.
11. Reconnect the jumper, press the down button, and observe that the red LED turns off immediately and the green LED turns on.

Rubric:

Note – the code will be inspected to verify that all of the steps pass due to valid software operation. If the code is not valid appropriate points will be deducted.

- _____ 25 points Step 3 passes.
- _____ 15 points Step 5 passes.
- _____ 20 points Step 7 passes
- _____ 10 points Step 10 passes
- _____ 10 points Full sequence passes
- _____ 20 points Code quality (good naming, clean appearance).