

EE313 – Extra Synchronous Design Problem
Rev 03/19/2012

1) Design a circuit that counts from 5 to 0 when an Active Low Launch button L is pressed. When the counter reaches 0, A missile should be fired by sending an Active High signal F to the missile. The counter should reset to 5 and stay at 5 if the launch button is released at any time. Once the counter has reached 0, it should stay at 0 as long as the Launch button is being pressed.

EE313 – Extra Synchronous Design Problem
Rev 03/19/2012

2) Design a circuit that Multiplies two 2 bit numbers A and B when clocked and outputs the result to output Y.