**DE2 Lab 2**

1. Write a VHDL program that able to blink an LED every 1 second (i.e. light up 0.5 sec and turn off 0.5 sec). Use the 50 MHz clock supplied by the DE2 board. To do this, you need to build a counter that able to slows down the 50 MHz clock.
2. Create a light chasing program with eight ledr. The light will rotate right when sw0=’0’ and rotate left when sw0=’1’.
3. Design a program that able to display “dE2 “, “E2 d”, “2 dE” (each displays every 1 second) in sequence using four 7-segment Leds. The sequence should repeat infinitely. Use the program in DE2 Lab 1 and program from question 1