AVR Lab

Day 4 – 5:

1) Write a delay subroutine to give an exact delay of 10ms using Timer 1 .(Test by outputting 0x55 and
0xaa alternately on the LED's using port B).

2). Write a code to toggle LED's on PORTB at the rate of 1 sec when 1 is pressed from
the keyboard and change the rate to 2 sec when 2 is pressed.

3) Design & Write a code to generate Maximum delay using Timer/Counter1.

4) Write a code to generate a PWM waveform.

5) Write a code to generate square wave at the output of pin OC1A of frequency f1 and
exactly f1/2 at OC1B.