**Tutorial - 4**

1. Write an instruction to generate a pulse every 50 microsecond from counter 0. (Identify mode of 8254, clock frequency of 8254 is 2 MHZ)
2. Write a program to generate 1 KHZ square wave from counter 1.Assume gate of counter 1 is tied to +5 V through a 10K resistor. Explain the significance of connection gate to +5V. (Assume clock freq= 2MHZ)
3. Write a subroutine to generate an interrupt every 1 sec. (Assume clock freq= 2MHZ)
4. Set up 8254 as a square wave generator with 1 ms period. (Assume clock freq= 1 MHZ)