# AVR Lab

**Day 1:**
Go through the day 1 ppt , compile and simulate a simple assembly level program .

**Day 2:**
1) Study well the Instruction Set of AVR and also the data sheet.
2) Add, Subtract two HEX numbers check the changes in SREG register. (Also try with carry).
3) Add a block of 10 Data bytes and store the result in the memory.

**Day 3:**
1) Multiply two 8-bit data without using the MUL instruction. Do the same for 16-bit.
2) Divide two 8-bit data without using the DIV instruction. Do the same for 16-bit.
3) Sort 10 numbers in ascending and descending order and store them separately without changing the original array.
4) Write a delay subroutine to give an exact delay of 2sec.(Test by outputting 0x55 and 0xaa alternately on the LED's using port B if possible ).