

Experiment-9

BATCH P2

*****Use Keil IDE for program implementation of 8051 microcontroller*****

Group-1 (Roll No: 21CO21-24)

Statement 7: – given block of 100h to 200h. Find out how many bytes from this block are greater then the number in r2 and less then number in r3. Store the count in r4.

Group-2 (Roll No: 21CO25-28)

Statement 6: – find out how many equal bytes exists between two memory blocks 10h to 20h and 20h to 30h.

Group-3 (Roll No: 21CO29-33)

Statement 5: – transfer the block of data from 20h to 30h to external location 1020h to 1030h.

Group-4 (Roll No: 21CO34-37)

Statement 3: – treat r6-r7 and r4-r5 as two 16 bit registers. Perform subtraction between them. Store the result in 20h (lower byte) and 21h (higher byte).

Statement 4: – divide the content of r0 by r1. Store the result in r2 (answer) and r3 (reminder). Then restore the original content of r0.

Group-5 (Roll No: 21CO38 onwards)

Statement 1: – exchange the content of FFh and FF00h (external RAM)

Statement 2: – store the higher nibble of r7 into both nibbles of r6