: Rishabh Sarswa : 19UELE8030 Name Rollno

Experiment : 7

Aim :

Divide the contents of memory locations 1000H and 1001H and place the quotient in memory location 1002H and remainder on 1003H.

Software Use : GNUSim8085

Program :

----- Program Table -----

Location	Hex code	Labels + Mnemonics	Explanation
F000 F004 F005 F006 F007 F008 F009 F00A F00D F00E F011 F012 F013 F014	0G, 00 21, 00, 10 7E 23 46 0C 90 D2, 08, F0 80 23 71 23 77	MVI C , 00H LXI H , 1000H MOV A , M INX H MOV B , M Loop : INR C SUB B JNC Loop ADD B LX1 H , 1002H MOV M,C INX H MOV M,A HLT	Imm. More data to C Load data in resister pair More data from memory to A Increment HL pair Move data from memory to B Increment C Sub. B data from A Jump if no carry Add data of B and accumulator Increment HL pointer by 1 Move data from C to memory Increment HL pair resister Move data from Accumulator End Program

## ----- program in asm -----

MVI C , 00H ;Imm. More data to C LXI H , 1000H MOV A,M INX H MOV B,M ;Load data in resister pair ;More data from memory to A ;Increment HL pair ;Move data from memory to B Loop: INR C SUB B ;Increment C ;Sub. B data from A ;Jump if no carry
;Add data of B and accumulator
;Increment HL pointer by 1
;Move data from C to memory
;Increment HL pair resister JNC Loop ADD B LXI H , MOV M,C 1002H INX H MOV M,A ;Move data from Accumulator HLT ;End Program

----- end program -----





