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.

Mov dptr, #0100h ; get initial location

Mov r7, #0FFh ; counter

Mov r4, #00h ; number counter

Mov 20h, r2 ; get the upper and lower limits in

Mov 21h, r3 ; 20h and 21h

Nxt: Movx a, @dptr ; get the content in acc

Cjne a, 21h, lower ; check the upper limit first

Sjmp out ; if number is larger

Lower: jnc out ; jump out

Cjne a, 20h, limit ; check lower limit

Sjmp out ; if number is lower

Limit: jc out ; jump out

Inc r4 ; if number within limit increment count

Out: inc dptr ; get next location

Djnz r7, nxt ; repeat until block completes

OUTPUT:

Show the register values and the execution of the program step by step .

