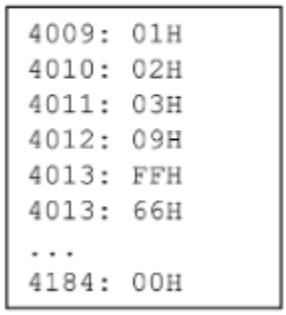
P1. Write an 8051 assembly language program to find the largest element in a given array of N = 6 (length of the array) bytes at location 4009h (starting address). Store the largest element at location 4184h.

Before Execution:



After Execution:

P2. Write an assembly language program to find whether the given number is prime or not. If prime send FFh to Port 0 else send 00h to Port 0.

P3. Write an assembly language program to perform the subtraction of two 16-bit numbers.

P4. Write an assembly language program to check whether the lower nibble is greater than the upper nibble of A. If ‘yes’ send 00h to Port 0 else send FFh to Port 0.

PS. Write an assembly language program to find the cube of a given number.

P6. Write an assembly language program to count the number of ones and zeros in an 8-bit number.

P7. Write an assembly language program to find whether a given 8-bit number is odd or even. If odd, store 00h in the accumulator. If even store FFh in the accumulator.