Tutorial – 1

1. Specify the memory location and its contents after the following instructions are executed.

   MVI B, F7H

   MOV A,B

   STA XX75H

   HLT

2. Show the register contents as each of the following instructions is being executed.

   A B   C D E H L

   MVI C, FFH

   LXI H,XX70H

   LXI D,XX70H

   MOV M,C

   LDAX D

   HLT

3. Specify the contents of the accumulator and the CY flag when the following instructions are executed.

   (a) MVI A, C5H   (B) MVI A, A7H

        ORA A   ORA A

        RAL   RAR

        RRC   RAL

4. The accumulator in the following set of instructions contains a BCD number. Explain the function of these instructions:

   MVI A,79H

   ANI F0H

   RRC

   RRC

   RRC

RRC

5. Explain the mathematical function that is performed by the following instructions.

    MVI A, 07H

    RLC

    MOV B,A

    RLC

    RLC

    ADD B