MIT Tutorial - 2

1	Specify the output at PORT1 if the following program is executed.
	MVI B, 82H
	MOV A, B
	MOV C, A
	MVI D, 37H
	OUT PORT1
	HLT

2	Identify the contents of the registers and the flags at the following instructions are executed.
	A B C D S Z CY
	MVI A, 00H
	MVI B, F8H
	MOV C, A
	MOV D, B
	HLT

3	Identify the contents of the registers and the flags at the following instructions are executed. A B S Z CY 00 FF 0 1 0 --- initial contents MVI A, F2H MVI B, 7AH ADD B OUT PORT0 HLT
4	Identify the contents of the registers and the flags at the following instructions are executed. A C S Z CY 00 00 0 1 0 --- initial contents MVI A, 5EH ADI A2H MOV C, A HLT
5	Identify the contents of the registers and the flags at the following instructions are executed. A B S Z CY MVI A, A9H MVI B, 57H ADD B ORA A
6	Identify the contents of the registers and the flags at the following instructions are executed. A B S Z CY XRA A MVI B, 4AH SUI 4FH ANA B HLT What operation can be performed by using XRA A instruction ?

7	MVIC, 03H
	LXI H, 2000H
	MOV A, M
	DRC C
	LOOP: INX H
	MOV B, M,
	CMP B
	JNC LOOP2
	MOV A, B
	LOOP2: DCR C
	JNZ LOOP
	STA 2100H
	HLT
	1. What does the above program do?
	2. At the end of the program, what will be
	a. The contents of the registers A, B, C, H and L?
	b. The condition of the carry and zero flags?
	c. The content of the memory locations 2000H, 2001H, 2002H and 2100H.

8	This program is to multiply the numbers OAH by OBH and stored the result in Accumulator. If contents of B=0AH, C=0BH then complete the following program. MVI A, 00H LOOP: …….. …….. …….. HLT END
9	Identify the contents of the registers, the memory location (2055H), and the flags at the following instructions are executed. A H L S Z CY M(2055H) LXI H,2055H MVI M,8AH MVI A,76H ADD M STA 2055H HLT