

**MIT Practicals**  
**Assignment 1**  
**Krunal Rank (U18CO081)**

**Question 1: Stores 25H in 0002H memory location**

;<Question 1>

jmp start

;data

;code

start: MVI A,25H

STA 02H

HLT

**Question 2: Exchanges values in memory location at 0002 and 0003**

;<Question 2>

jmp start

;data

;code

start: LDA 0002

MOV D, A

LDA 0003

MOV E, A

MOV A, D

STA 0003

MOV A, E

STA 0002

HLT

### **Question 3: Adds 2 values in B and C and stores it at B**

;<Question 3>

jmp start

;data

;code

start: MVI B, 12H

MVI C, 25H

MOV A,B

ADD C

MOV B,A

HLT

### **Question 4: Subtracts value from B from value from C and stores it at B**

;<Question 4>

jmp start

;data

;code

start: MVI B, 12H

MVI C, 25H

MOV A,C

SUB B

MOV B,A

HLT

### **Question 5: Adds 2 16 Bit Numbers from Memory at 0000,0001 and 0002,0003**

;<Question 5>

jmp start

;data

;code

start: LHLD 0000H

XCHG

LHLD 0002H

MOV A, E

ADD L

MOV L, A

MOV A, D

ADC H

MOV H, A

SHLD 0000H

HLT

### **Question 6: Adds 2 values from memory location**

;<Question 6>

jmp start

;data

;code

start: LDA 0002

MOV B,A

LDA 0003

ADD B

STA 002

HLT

### **Question 7: Subtracts 2 16 Bit Numbers from Memory at 0000,0001 and 0002,0003**

; <Question 7>

jmp start

;data

;code

start: LHLD 0000

XCHG

LHLD 0002

MOV A, E

SUB L

STA 0000

MOV A, D

SBB H

STA 0001

HLT