Microprocessor Lab
(EE-633)

Lab Work
(Experiment 1)

Submitted by: Guided by and Submitted To:
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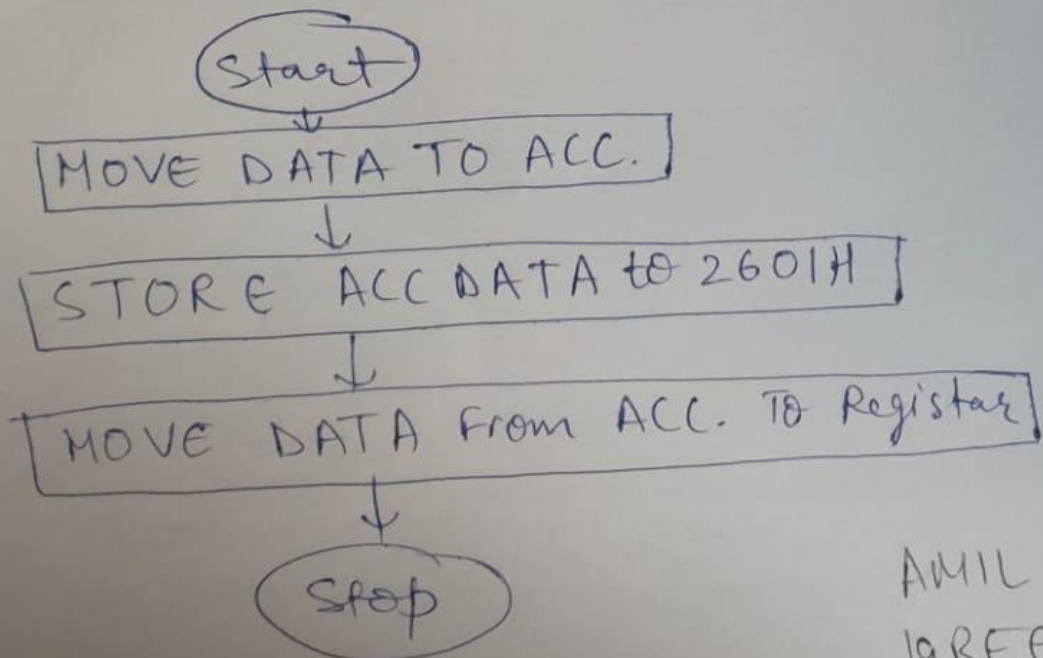**New Delhi-110025**

Session 2022-2023

Objective:

Place the content of memory location 2601H in Register C, The content of 2600H & 2601H are 2AH & 3FH.

Program

Memory Add.	Mnemonics	Operand	Opcode	Comment
3000	MVI	A, 3FH	3E	
3001			3F	
3002	STA	2601H	32	
3003			01	
3004			26	
3005	MOV	C, A	4F	
3006	HLT		76	

Flow chart

```
        ( Start )
           ↓
  MOVE DATA TO ACC.
           ↓
  STORE ACC DATA to 2601H
           ↓
  MOVE DATA from ACC. TO Register
           ↓
        ( Stop )
```

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19BEE062

Program Code

main.asm

```asm
1 ;Created By Amil Saleem
2 ;Roll No 19BEE062
3
4 LDA 2500H
5 MOV B, A
6 HLT
7
```

Result

Memory View

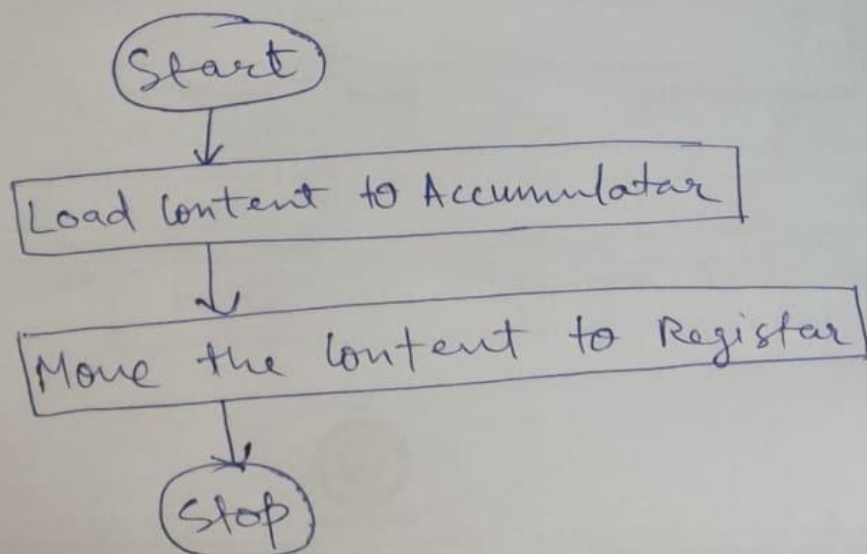|	0	1	2	3	4	5	6	7
080	3A	00	25	47	76	00	00	00
081	00	00	00	00	00	00	00	00

Experiment – 1

Objective :-

Load the content of the memory location 2500H. directly to the accumulater. then transfer it to register B. The content of memory location 2500H is OAH.

Program

Memary Add.	Mnemonics	Operand	Opcode	Comment
3000	LDA	2500H	3A	
3001			00	
3002			25	
3003	MOV	B, A	47	
3004	HLT		76	

Flow chart

```
        ( Start )
            |
            v
  | Load Content to Accumulatar |
            |
            v
  | Move the Content to Registar |
            |
            v
        ( Stop )
```

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Program Code

main.asm

```
1 ;Created by Amil Saleem
2 ;19BEE062
3 MVI A, 07H
4 STA 2601H
5 MOV C,A
6 HLT
```

Result

Memory View ⟳

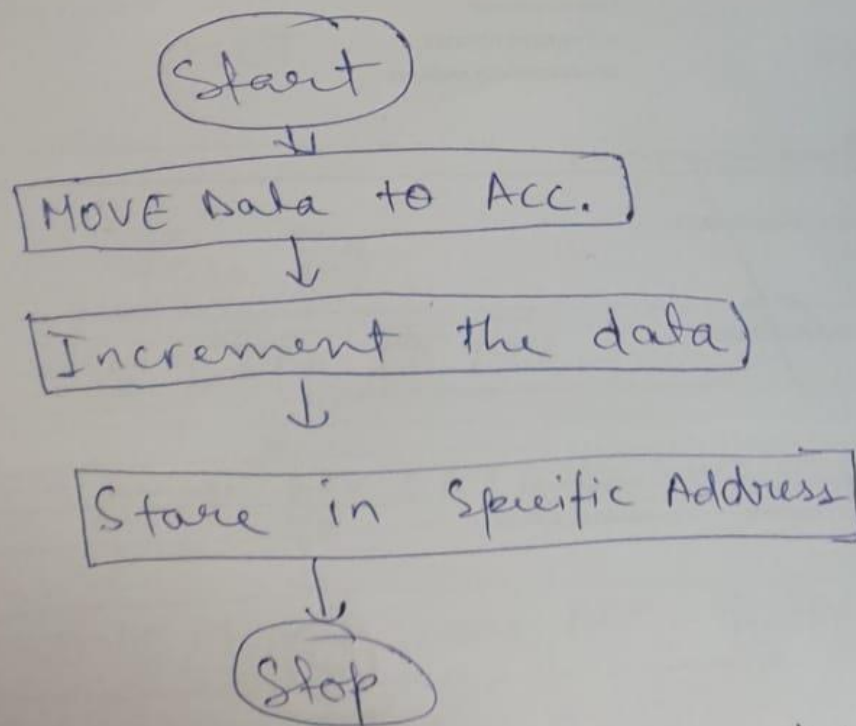|	0	1	2	3	4	5	6	7
260	00	07	00	00	00	00	00	00
261	00	00	00	00	00	00	00	00
262	00	00	00	00	00	00	00	00

Objective :

Place 09H in the accumulator, increment it by 1 and store the result in memory location 2700H.

Program

Memory Add.	Mnemonics	Operand	Opcode	Comment
3000	MVI	A, 09H	3E	
3001			09	
3002	INR	A	3C	
3003	STA	2700H	32	
3004			00	
3005			27	
3006	HLT		76	

Flow chart

```
        ( Start )
            ↓
  [ MOVE Data to Acc. ]
            ↓
  [ Increment the data ]
            ↓
  [ Store in Specific Address ]
            ↓
         ( Stop )
```

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Program Code

main.asm

```
1  ;Created by Amil Saleem
2  ;19BEE062
3  MVI A, 09H
4  INR A
5  STA 2700H
6  HLT
7
```

Result

Memory View ⟳

	0	1	2	3	4	5	6	7
080	3E	09	3C	32	00	27	76	00
081	00	00	00	00	00	00	00	00
082	00	00	00	00	00	00	00	00