WORKSHEET – 7

Name:

Section/Group:

UID:

Subject: Microprocessor and Interfacing Lab

Date of Submission: 30.3.2022

Branch: BE CSE (4th Semester)

Aim:

Shifting of 16-bit numbers.

Task to be done:

a) Shift a 16 -bit number to left by1-bit

b)Shift a 16-bit number to left by2-bits.

Apparatus / Simulator Used:

1. Jubin Application
2. 8085 Simulator
3. JDK

Algorithm / Flowchart:

Shift a 16 -bit number to left by1-bit:

1. Load H – L pair with address 3000H.
2. DAD is used to shift the 16-bit number to left by 1-bit.
3. Store HL pair using direct addressing in memory location.
4. Terminate the program.

Shift a 16 -bit number to left by 2-bits:

1. Load H – L pair with address 3000H.
2. DAD is used to shift the 16-bit number to left by 2-bits.
3. Store HL pair using direct addressing in memory location.
4. Terminate the program.

Code:

Shift a 16 -bit number to left by1-bit:

BEGIN 0000H

    LHLD 3000H

    DAD H

    SHLD 3001H

    HLT

ORG 3000

DB 96H,75H

Shift a 16 -bit number to left by 2-bits:

BEGIN 0000H

       LHLD 3000

       DAD H

       DAD H
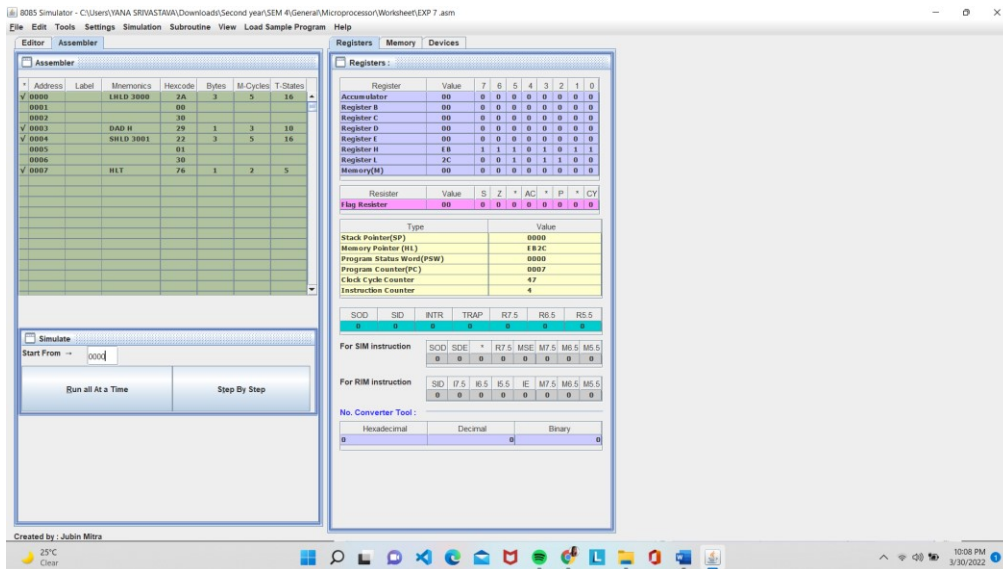
       SHLD 3001

       HLT

ORG 3000

DB 96H,75H

Result / Output / Writing Summary:

Shift a 16 -bit number to left by1-bit:

Shift a 16 -bit number to left by 2-bit:

Learning Outcomes:

1. Working of microprocessors.
2. Learn how to shift data in microprocessors.
3. Learn about 8085 simulator.
4. Operations of 16 bit numbers.
5. Learn about the different instructions that are needed to be given to the memory to perform some tasks.

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Evaluation Grid (To be created as per the SOP and Assessment guidelines by the faculty):

Sr. No.	Parameters	Marks Obtained	Maximum Marks
1.			
2.			
3.			

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