



# Experiment 1.2

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Semester: 4th

**Subject Name: MPI Lab** 

**UID:20BCS1812** 

Section/Group:607A

Date of Performance: 23/02/2022

**Subject Code: 22E-20CSP-253** 

1) Aim/Overview of the practical:

Write a program to perform Addition of two 16bit numbers, sum 16 bit.

2) Task to be done/ Which logistics used:

To perform Addition of two 16bit numbers, sum 16 bit.

- 3) Apparatus/Simulator used: 8085 simulator
- 4) Steps for experiment/practical/Code:

**LHLD 3000** 

**XCHG** 

**LHLD 3002** 

DAD D







#### **SHLD 5000**

**HLT** 

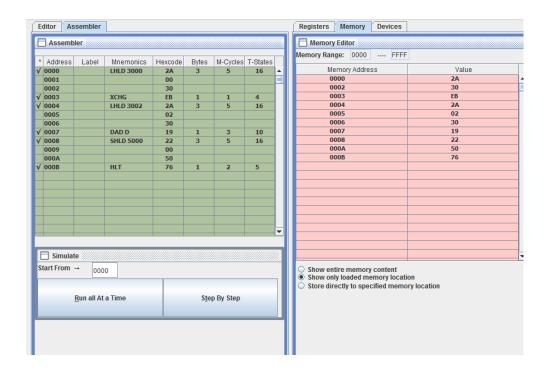
#### 5. Algorithm:

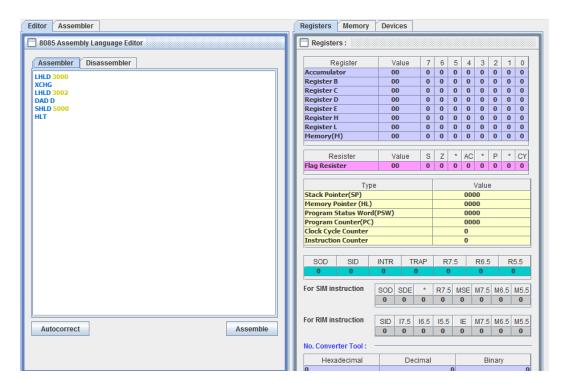
- 1. LHLD 3000 Loaded the value at 3000 in L and that 3001 in H register(first number).
  - 2. XCHG Copied the content of H and L to D and S respectively.
- 3. LHLD 3002 Loaded the value at 3002 in L and that in 3003 in H register(second number).
- 4. DAD D adds the value of H and L with D and E respectively and stores the result in H and L .
  - 5. SHLD 5000 stores the result at the memory location 5000.
  - 6.HLT ends the execution.





### 6. Result/Output/Writing Summary:











## Learning outcomes (What I have learnt):

- 1.Learnt about 8085 simulator
- 2.how to perform 16 bits addition
- **3.**
- 4.
- **5.**





# **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.			

