



# WORKSHEET-1.2

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Branch: BE-CSE Section/Group-716"A"

**Semester: 4<sup>th</sup> Date:04/03/22** 

Subject Name: MPI Sub Code: 20CSP-253

# 1. Aim/Overview of the practical:

Add two 16 bit number.

#### 2. Task to be done:

We have to add two 16 bit number and store them in a memory.

## 3. Apparatus/Simulator used

1. JUBIN

2. JAVA

### 4. Algorithm/Flowchart (For programming based labs):

LHLD 5000H //LOAD THE DATA FORM MEMORY

PAIR







XCHG // EXCHANGE THE DATA OF HL WITH DE

LHLD 5004H // LOAD DATA FROM THE MEMORY PAIR

IN HL

MVI C, 00H // MOVE 00HH TO C

DAD D // ADD THE NUMBERS

JNC LABLE // IF THERE IS NO CARRY THEN JUMP TO THE

**LABLE** 

INR C // IF ANY CARRY IS THERE THE INC

THE CARRY

MOV A,C // MOVE CARRY TO THE

ACCUMULATOR STA 5006H // STOR THE ACCUMULATOR

VALUE AT 1006h LABLE: SHLD 5004H // STORE

THE ANS AT 1004H

HLT //STOP TO CHECK FURTHUR INSTRUCTIONS

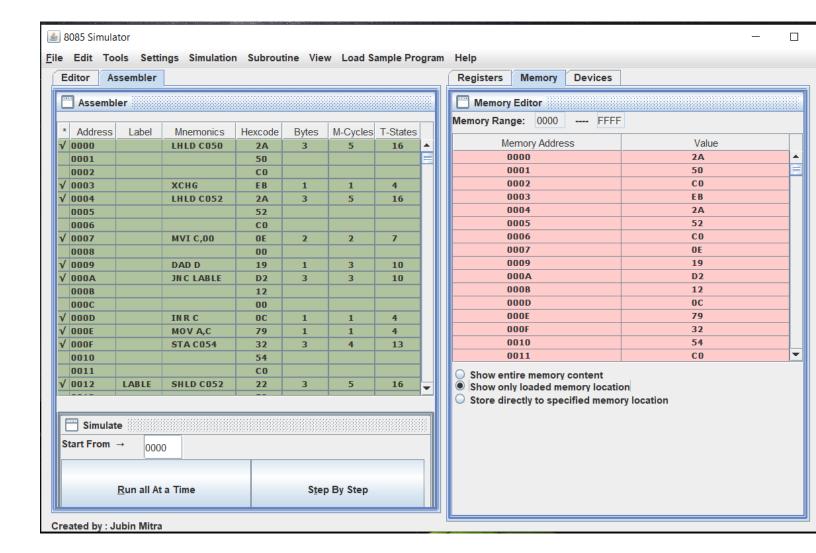








#### **5.** Result/Output/Writing Summary:









#### 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.			

