ASIAN COLLEGE OF HIGHER STUDIES

# ACHS

COLLEGE OF IT AND COMPUTER SCIENCE

## LAB REPORT COVER PAGE

**Lab No:** 01

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**Initial Submission Date:** July 28, 2023

**Final Submission Date:** ...........................

**Course Name:** **Microprocessor**

**Course Code:** **CSC167**

**Semester:** **2nd**

**Instructor/Examiner/Lecture:** **Bhuwan Acharya**

**Evaluator's Comment:**

**Evaluator's Signature:** ....................12

2080-04

# LAB 1: Introduction of Digital Trainer Kit of 8085 microprocessor

## Introduction:

### 8085 Digital Trainer Kit:-

8085 Digital Trainer kit is proposed to smooth the progress of learning and developing designs of 8085 microprocessor. It is a hardware tool where user can enter programs in Assembly language. It consists of 8085 microprocessor, memory, input/output Parts, Hexadecimal keyboard, Display unit, Clock, Power supply unit.
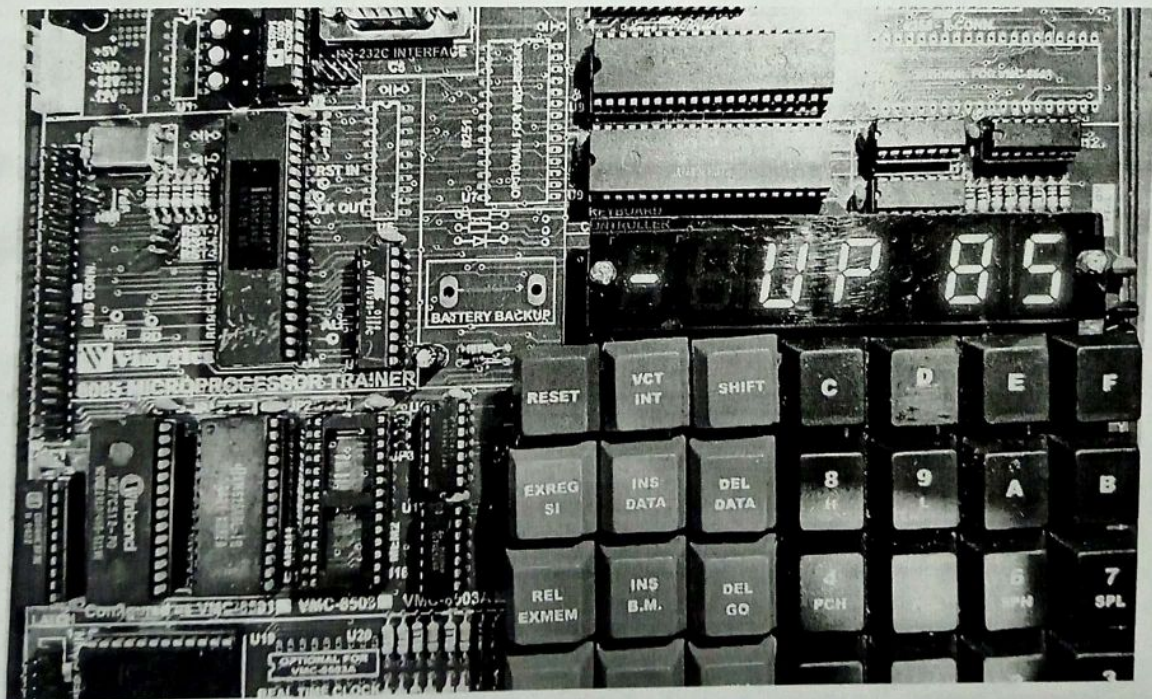


Fig:- 8085 Trainer Kit

Steps to Input data in microprocessor :-

-> PRESS THE 'RESET' Button
-> Press 'EXMEM'
-> Enter starting address
-> Press 'NEXT' and Enter 'Hex code'
-> Enter second Number . . .
-> Press 'RESET'.


Steps to Execute data in Microprocessor :-

=> Press Terminator (Fill)
-> Then 'Go'.
-> Press starting address
-> Then Press Terminator (Fill)

Program to add two numbers: 02 & 03 H

| Address | Instructions | Hex code |
|---------|--------------|----------|
| 2000H | MVI A, 02 | 3E 02 |
| 2003H | MOV B, A | 47 |
| 2004H | MVI A, 03H | 3E 03 |
| 2006H | ADD B | 80 |
| 2007H | STA 2600H | 32 00 26 |
| 200AH | HLT | 76 |

Result: 2600 05H

Program to subtract two numbers: 05 & 03 H

| Address | Instructions | Hex code |
|---------|--------------|----------|
| 2000H | MVI A, 03 | 3E, 03 |
| 2003H | MOV B, A | 47 |
| 2004H | MVI A, 05 | 3E, 05 |
| 2006H | SUB B | 90 |
| 2007H | ANA B | A0 |
| 2008H | STA 2601 | 32 01 26 |
| 200B | HLT | 76 |

Result: 2601 02H

Result
Discussion
Conclusion