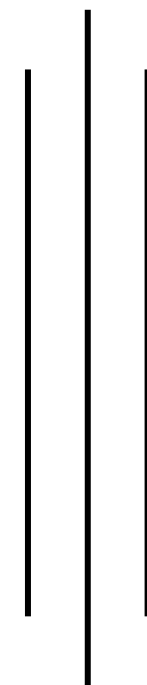


# SAGARMATHA ENGINEERING COLLEGE

(TU Affiliated)

Sanepa, Lalitpur



**LAB NO: 7**

**A LAB REPORT ON**

**MISCELLANEOUS PROBLEMS FROM PAST IOE EXAMS IN 8085 PROGRAMMING.**

**Submitted By**

**Name: .....**

**Faculty/Year: .....**

**Roll No.: .....**

**Date: .....**

**Submitted To**

**Department of Electronics and Computer Engineering**

**Signature: .....**

**Date: .....**

MICROPROCESSOR LAB-07	
<b>TITLE</b>	MISCELLANEOUS PROBLEMS FROM PAST IOE EXAMS IN 8085 PROGRAMMING.
<b>Objective</b>	<ul style="list-style-type: none"> <li>✓ To be able to develop various programming logics.</li> <li>✓ To be able to solve problems asked in final examination.</li> </ul>
<b>Hardware/Software Required</b>	<ul style="list-style-type: none"> <li>▪ Computer with internet</li> <li>▪ Sim8085 online simulator</li> </ul>
<b>Problems</b>	<p><b>Q1.</b> Write an ALP in 8085 to transfer 20 bytes of data in a table to another table by interchanging D<sub>1</sub> and D<sub>4</sub> bits of each byte. [2075 <i>Baishakh</i>]</p> <p><b>Q2.</b> Write an assembly language program for 8085 to find the square of ten 8-bit numbers which are less than or equals to 0FH, stored from memory location C090H. Store the result from the end of the source table. [2073 <i>Magh</i>]</p> <p><b>Q3.</b> Write a program in 8085 to sort the 10 data bytes stored in a table in descending order. The data bytes are stored in a table from memory address 8920H. [2076 <i>Bhadra</i>]</p> <p><b>Q4.</b> Write a program in 8085 to find the largest and smallest bytes from the list of 20 bytes stored starting from memory location C050H. Store the largest byte and smallest byte in C070H and C071H respectively. [2076 <i>Baisakh</i>]</p>
<b>Result</b>	Hence, All the given instructions are executed and the result is verified.