

COAL Lab project proposal

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Submitted to:-

mr. rana mubeen tariq (Lab instructor)

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# **Computer Organization and Assembly Language Project Proposal**

**Project Title: -**

“Implementation of Calculator Program, using Assembly Language 8086”

**Project Submission: -**

Saad Nadeem (21F-9104) to Mr. Rana Mubeen Tariq (Lab Instructor).

**Objective: -**

“To implement our approach in the best way possible, and to have most of the knowledge towards our implementation.”

**Project Description: -**

Project is a simple and user-friendly “Calculator Program”. It can perform Simple Arithmetic Operations depending upon the user input. For instance, it will take two numbers from user and will output desired result, just like addition of two numbers.

**Project Features: -**

* A Calculator Program fully capable of doing arithmetic operations.
* Simple Approach towards program execution.
* Fully Capable to perform simple arithmetic operations.  
  For instance: Addition, Subtraction, Multiplication, Division etc.
* User Friendly, Easy to use with simple instructions.

**Tools Used: -**

* DOSBox (Open-Source Emulator to run MS-DOS).
* Microsoft Macro Assembler (MASM x8086).
* Linker to link object modules into a single object file.

**Outcome: -**

* A successful operational, user-friendly Calculator.
* Furthermore, it helped me revise all my Assembly Language concepts and helped me implement them all in my project.