**CO\_PROJECT(PHASE-1)**

First of all we constructed two tables one for storing the label and it’s address and second is for storing the memory.

Then a class for simulator and the variable to store that particular variables.

We write function for execution, then for process.

In the Simulator we pass the mode of execution and file name.

In the preprocess function we will be able to know is the syntax is correct or not.

Then after error function to detect the error in which line

Read instruction function to read the instruction and followed by parse instruction.

Space function to check if there are spaces ignore it.

In execute instruction executing the instructions which instructions are found.

Function to remove the spaces is constructed

And then each instruction is explained so that which function does what work.

Function display is created to display the state.

Functions to find the register and also to find the label is made.

The program is running but it is not giving the required output. It is showing error for the .word instruction in data section. It is not storing the value in register.

The main procedure to the project is to send the simulator mode and path and execute the input program. In the input program perform the instructions and return the registers which are stored and also the remaining registers.

Finally to print the output in the input program.