

# CS335A-Project

## Milestone2

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We have used python version 3.8.18 grammar for the implementation

### 1. Folder content:

milestone2 directory contains the following folders and files:

- (a) milestone2/src folder contains all the required source files. Let the files be "lexer.l", "parser.y", "symbol\_table.cpp" and "3ac.cpp". The bash script file "compile.sh" should be in this folder.
- (b) milestone2/tests folder contains the testcase files
- (c) milestone2/doc/doc.pdf which contains the instructions

### 2. Compilation instructions:

To install flex, Bison, Dot and Graphviz use the following commands in linux:

```
sudo apt-get update
sudo apt-get install flex
sudo apt-get install bison
sudo apt-get install graphviz
```

To compile and execute the files, open the milestone2 directory in terminal and execute the following instruction.

#### To compile:

- Execute the following command to give execute permission to bash script file. (The bash script is in "compile.sh" file which is used to compile the program.)

```
$ chmod +x src/compile.sh
```

- Execute the following command to compile the source files.

```
$/ src/compile.sh
```

The following files will be created after compilation in src folder:

```
parser.tab.h
parser.tab.c
parser.tab.output
lex.yy.c
parser
```

#### To execute:

```
$./src/parser tests/testcase.py
```

- To execute various test cases, change "testcase.py" to the respective ".py" test case file
- The "symboltable.csv" files will be created in the src folder