

Compiler Design

IN

Python

Submitted to :

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**Abstract of the Project**

In this project we will develop a small C compiler written in Python using recursive Descendent parser

LL(1). This Parser will parse simple C codes check for any ambiguity and will also check whether it can be parsed according to the rules which is already defined in parser or not .

**Scope of the projects :-**

Functional Requirements:

* Math
  + Operations: +, -, \*, /, %, ++, --, &&, ||, !
  + Assignment: =, +=, -=, \*=, /=, %=
  + Comparison: ==, !=, <, <=, >, >=
* int type variables
* Control structures:
  + if
  + while
  + for
  + break
  + continue
* Arrays
* Function definition and calling
* //-Single line comments
* \\* ... \*/-Multiple line comments
* print statement: print n outputs the integer n to stdout.
  + This isn't in the C spec, but it is included to facilitate outputting values from the program.