Assignment 4 (CS335A)

❖ Group Details

Name	Roll No.	email-ID
Anupriy	150121	anupriy@iitk.ac.in
Deepanshu Bansal	150219	dbansal@iitk.ac.in
Jaskirat Singh	150302	jaskis@iitk.ac.in

How is it building?

- We are firstly using **bison** to create two files parser.tab.c, parser.tab.h.
- parser.tab.h is used as a header file in our lex.l file.
- Then we are using **flex** tool to generate lex.yy.c.
- Finally we are compiling together these files.

Semantic Rules added for generating 3AC IR code for

- For simple arithmetic expressions
- Nested and complex arithmetic expressions according to precedence and associativity.
- Conditional Statements (if-else) using backpatching
- Boolean Expressions (Simple+Complex)
- Arrays
- Loops
- Functions
- Let expressions
- Scoping Handling