## **CS 358 Compiler Techniques Lab**

## **Assignment 6**

Maximum Marks: 60

Start Date: 19.03.2024 02:30 pm

Submission Deadline: 25.03.2024 11:59 pm

## Instructions:

- 1. This assignment must be done individually.
- 2. For late submissions, 10% is deducted for each hour late after an assignment is due.
- 3. You need to submit your code and document in Google Classroom.
- 4. You should submit only one zip file containing your code and document (ReadMe). You should name your file as your RollNumbers\_name.zip.

Question 1 [Marks: 20]: You need to build a simple Calculator using LEX and YACC.

For Example-Input: 2+2\*3

Output: 8

**Question 2 [Marks: 20]:** Write a LEX (and YACC) program that can take c program file as an input and can check if there are balance parenthesis ( () and {} ) or not? For Example- Input: hello world C program file (or any C program file)

Output: Parenthesis are balanced Or Parenthesis are not balanced

**Question 3 [Marks: 20]:** Write a LEX (and YACC) program to identify following helping verbs: {am, is, are, was were, being, been, be, have, has, had, do, does, did, will, would, shall, should, may, might, must, can, could} in a sentence.

For Example- Input (from terminal): you are a nice person

Output: you: is not a helping verb

are: is a helping verb a: is not a helping verb nice: is not a helping verb person: is not a helping verb