

# CS 358 Compiler Techniques Lab

## Assignment 4

Maximum Marks: 30

Start Date: 07.02.2025 02:30 pm

Submission Deadline: 14.02.2025 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 zip file as **rollNumber&name.zip**.

**Question 1 [Marks: 10]:** What is LEX Tool in Compiler. Discuss the structure of the LEX program. Note: This should be hand-written answer.

**Question 2 [Marks: 10]:** Write a LEX program to count the number of words. Words can consist of uppercase characters, lowercase characters and digits.

**Question 3 [Marks: 10]:** Write a LEX program to count the number of comments in a given C program file.

**Note:** Check the following Google Drive link for detailed setup instructions (Windows and Linux), setup files, and study material:

[https://drive.google.com/drive/folders/1E6cTXy36lvoWJSZ-ivf6p0BoNospQMji?usp=drive\\_link](https://drive.google.com/drive/folders/1E6cTXy36lvoWJSZ-ivf6p0BoNospQMji?usp=drive_link)