## **CD LAB ASSIGNMENT 9**

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- **Q1** [AST]. There are various intermediate representations such as Abstract-Syntax-Tree (AST), Directed-acyclic-graph (DAG), and 3-address code. Consider your expression grammar from assignment 9 with operations such as addition, subtraction, multiplication and division.
  - 1. Using semantic actions, design S-attributed/L-attributed translation grammar to generate **AST**. Explain all the semantic actions that you considered. Submit a document with brief explanations.

## **S-ATTRIBUTED GRAMMAR:**

 Semantic actions are written inside {} where the attribute values are generated and passed to further process and until exits • Consider the example 2\*3+3\*3+2\*3+3\*3=

