**Mandsaur University mandsaur**

Department of Computer Science and Engineering

Compiler Design Assignment - CSE V Semester

Unit - II

1. Differentiate between **top-down parsing** and **bottom-up parsing** with suitable examples.
2. Construct LL(1) parsing table for the following grammar :

S→aBDh B→cC C→bC|∈

D→EF E→g|∈ F→f|∈

1. Consider the grammar:

S→ AaAb| BbBa A→ ∈ B→ ∈

Show that the grammar is LL (1) but not SLR.

1. Construct LALR parsing table for the following set of productions.

S→CC C→cC C→d

1. Define **syntax-directed definitions (SDDs)** and their role in compilers.