ADVANCED PRACTICAL LIST

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| **Lab session no** | **List of Experiments** | **CO-Mapping** |
| 1 | Develop a python program to demonstrate the Simplex method and Graphical method in Linear Programming. | CO1 |
| 2 | Develop a python program to demonstrate Two Phase Simplex method in Linear Programming. | CO1 |
| 3 | Develop a python program to demonstrate the Duality in Linear Programming | CO2 |
| 4 | Demonstrate a python program for special cases in Simplex method | CO2 |
| 5 | Develop a python program to demonstrate the Initial Basic Solution in Transportation problem using NW method in Linear Programming (Stepping stone). | CO3 |
| 6 | Develop a python program to demonstrate the Initial Basic Solution in Transportation problem using Vogel method in Linear Programming (U-V method). | CO3 |
| 7 | Develop a python program to demonstrate the Initial Basic Solution in Transportation problem using NW method in Linear Programming (U-V method). | CO3 |
| 8 | Develop a python program to demonstrate the Initial Basic Solution in Transportation problem using Row Minimum and Column Minimum method in Linear Programming. | CO3 |
| 9 | Develop a python program to demonstrate the Initial Basic Solution in Transshipment problem in Linear Programming. | CO3 |
| 10 | Develop a python program to demonstrate the Transportation problem using Modi method (Initial solution can be of any method) in Linear Programming. | CO3 |
| 11 | Develop a python program to demonstrate the Assignment problem using Hungarian method. | CO3 |
| 12 | Develop a python program to demonstrate the Interior point method, Cutting Plane method in Linear Programming. | CO4 |
| 13 | Develop a python program to demonstrate the Discrete Optimization using | CO4 |
| 14 | Develop a python program to demonstrate the Discrete Optimization using Branch and Bound method. | CO4 |
| 15 | Develop a python program to demonstrate the Discrete Optimization using Additive algorithm. | CO4 |