Dire Dawa University – Institute of Technology

School of Computing

Department of Software Engineering

Design and Analysis of Algorithm - Group Assignment – 10%

Select and write a C++ Program to implement the following problem-solving algorithms:

1. **Divide and Conquer Algorithms**
2. **Greedy Algorithms**
3. **Dynamic Programming Algorithms**
4. **Graph Algorithms (BFS and DFS)**
5. **Backtracking Algorithms**

NB:

- **Maximum number of group members are 5.**
- **The program should be a single (.cpp) file.**
- **The program should have a menu to select the problems.**
- **Every necessary input should be entered from the keyboard.**
- **The name of group members should be included on the top of the program.**
- **Deadline: May 31/2025 G.C.**