

**WIA1002/WIB1002 Data Structure**  
**Lab: Graph**

1. The `addEdge` method in `WeightedGraph.java` adds only directed edges. Create an `addUndirectedEdge` method that creates undirected edges. This method receives two vertices and a weight and return a boolean.
2. Create a method `removeEdge` that removes an edge if the source and destination of the edge is given.
3. We do not need weighted graphs all the time. Based on the framework of the weighted graph, create a class `Graph.java` for unweighted graphs. Implement both `addEdge` and `addUndirectedEdge` methods.
4. Modify the `TestWeightedGraph.java` in the lecture notes to test the `Graph` class created in question 3.