

# Assignment#06 - Graphs

- Provide Adjacency list based implementation of Graphs in C++
- Create a class named Graph
  - While creating the object of the class you should be able to:
    - Create an empty adjacency list
  - Create a function for add\_vertex, that should:
    - Insert a vertex into the graph
  - Create a function for add\_edge. that should:
    - Take two existing vertices as parameters and insert an edge between them (starting from the first parameter and ending on the second).
  - Create a function in\_degree, that calculates the in\_degree of a vertex (passed as parameter to the function) in the graph.
  - Create a function out\_degree, that calculates the out\_degree of a vertex (passed as parameter to the function) in the graph.