Graph HW

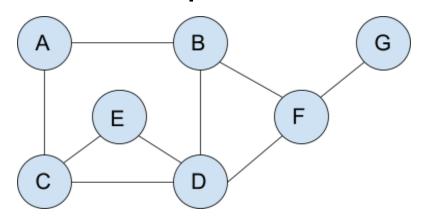


Fig: Graph

Tasks:

- 1.Construct Adjacency matrix.
- 2. Find degrees of all Nodes and print them.
- 3.Print degree based on query. [If user input='A'
 degree=2]
- 4.Print Adjacent nodes based on query. [If user input='A' Adjacent= B,C]
- 5.Detect Loop in Graph and print them if found.
- 6.Detect multiloop in Graph and print them if found.
- 7.If two nodes are not adjacent, can they be connected through a node? Print them.
 - [In the graph, B and E are not adjacent but can be connected through node D]
- 8.If two nodes can not be connected through one node, can they be connected through two nodes? Print them.
 - [In the graph, E and G can be connected through D and F node]