



# **SNS COLLEGE OF ENGINEERING**

Kurumbapalayam (Po), Coimbatore – 641 107

**An Autonomous Institution**

Accredited by NBA – AICTE and Accredited by NAAC – UGC with ‘A’ Grade  
Approved by AICTE, New Delhi & Affiliated to Anna University, Chennai



## **DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING-IOT Including CS&BCT**

**COURSE NAME : 19CS307- DATA STRUCTURES**

**II YEAR / III SEMESTER**

**Unit IV- NON LINEAR DATA STRUCTURES - GRAPH**



# TOPIC: Bi-Connectivity



# Cont..

- An undirected graph is called Biconnected if there are two vertex-disjoint paths between any two vertices
- In a Biconnected Graph, there is a simple cycle through any two vertices.

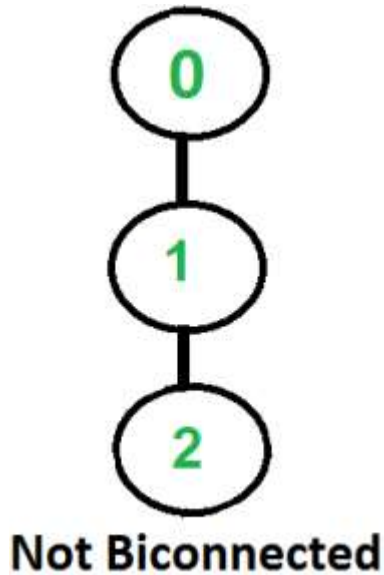
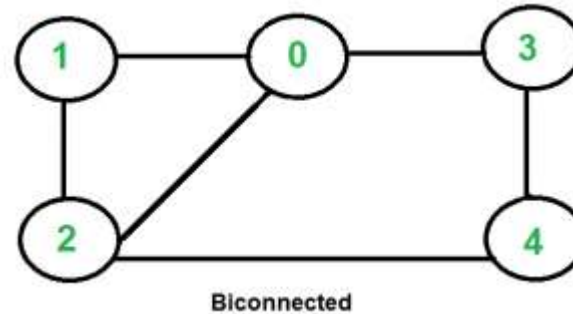
By convention, two nodes connected by an edge form a biconnected graph, but this does not verify the above properties. For a graph with more than two vertices, the above properties must be there for it to be Biconnected.



# Cont..

- *A connected graph is Biconnected if it is connected and doesn't have any Articulation Point. We mainly need to check two things in a graph.*
  - 1) The graph is connected.
  - 2) There is not articulation point in graph.

# Cont..





# Thank you