

# Graph Theory: Lecture No. 23

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**Perfect Graphs: A graph  $G$  is perfect if  $\chi(H) = \omega(H)$  for every induced subgraph  $H$  of  $G$ .**

**Some classes which are known to be perfect:**

- 1 Bipartite Graphs**
- 2 Complements of Bipartite Graphs**
- 3 Line graphs of Bipartite Graphs.**
- 4 Complements of Bipartite Graphs.**
- 5 Comparability Graphs.**
- 6 Co-comparability Graphs.**
- 7 Interval Graphs**
- 8 Co-Interval Graphs.**
- 9 Chordal Graphs.**
- 10 Co-Chordal Graphs.**