Coloring Problem:

the problem is that we must color the vertices of a G (vertex, edge) graph such that no two adjacent vertices share the same color.

#Each color represents by intger.

this problem can be custom to a lot of others such as:

- * If graph is bipartite color = 2.
- * Scheduling meeting every vertex is a meeting, and the edge means there is a common person in the meeting color will be the minimum number of days between meeting for each person
- * Frequencies frequencies assign to towers in the same location must be different because of interference edge means they in range (same location) every tower is vertex.