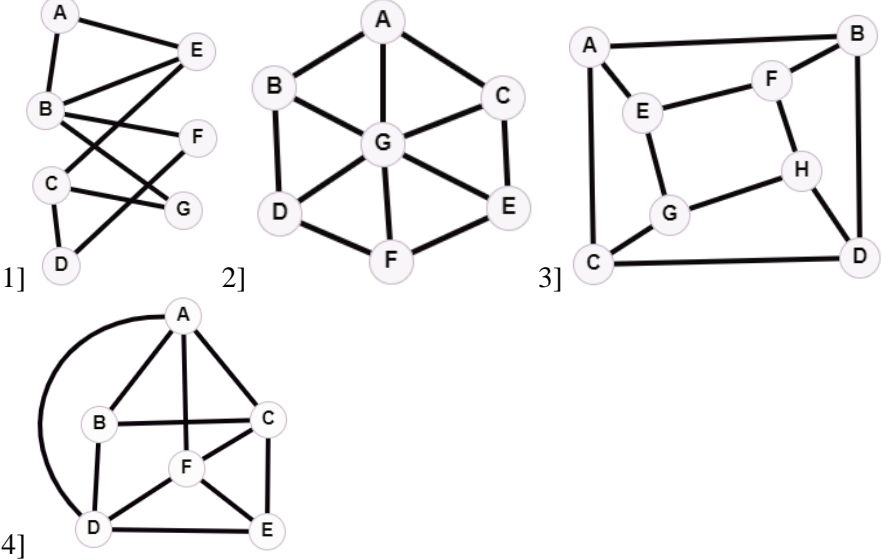
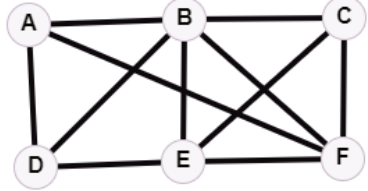
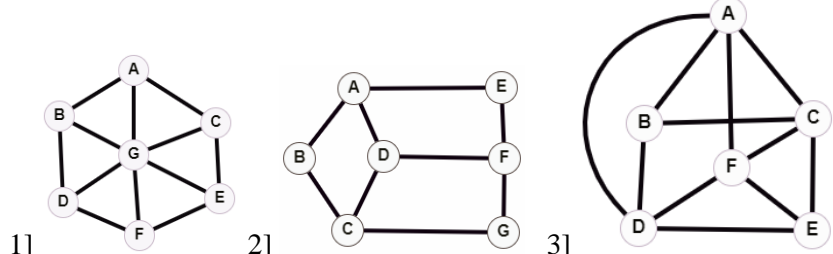
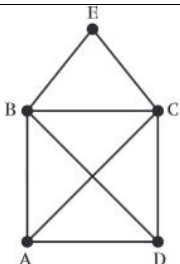
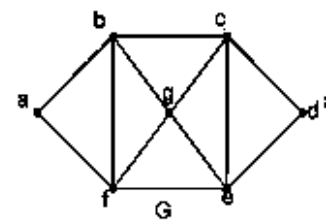
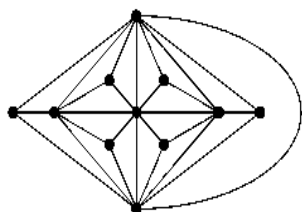
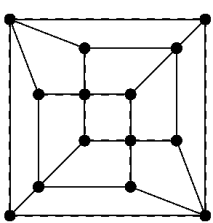
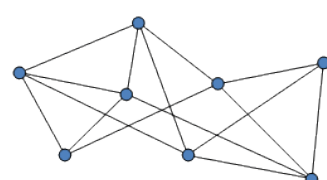
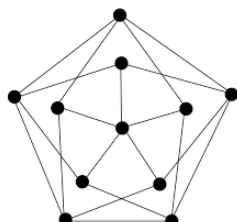
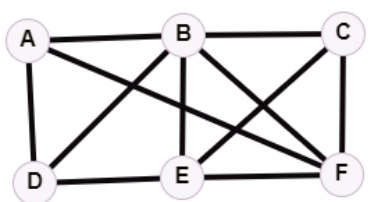


Subject: DM (01CE0409)
SEM: 04
AY: 2023-24
Assignment: 6
Unit: Planar & Non-Planar Graph

1	<p>Apply graph embedding Check whether following graphs are planar or not.</p>  <p>1] 2] 3] 4]</p>	Evaluate
2	<p>Apply graph embedding and check the following graph are planar or not (1) Petersen graph (2) Complete graph K_3, K_7 (3) Complete bipartite graph $K_{4,3}$, $K_{7,1}$</p>	Understanding
3	<p>Prove that kuratowski's first is non-planar.</p>	Understanding
4	<p>Show that this graph is planar by draw in it in the plane without any edges crossing .Verify Euler's formula for this graph.</p> 	Analyzing
5	<p>Verify the Euler's formula in the following graphs.</p>  <p>1] 2] 3]</p>	Application



	 4]	
6	Apply the Euler 's formula on (1) Petersen graph (2) $K_{3,4}$, $K_{2,3}$ (3) K_4 , K_6	Evaluate
7	Find the dual graph of following 1]  2]  3] 	Apply
8	Find the chromatic number of following graphs 1] Petersen graph 2]  3]  4] 	APPLY
9	Apply region coloring	Apply

