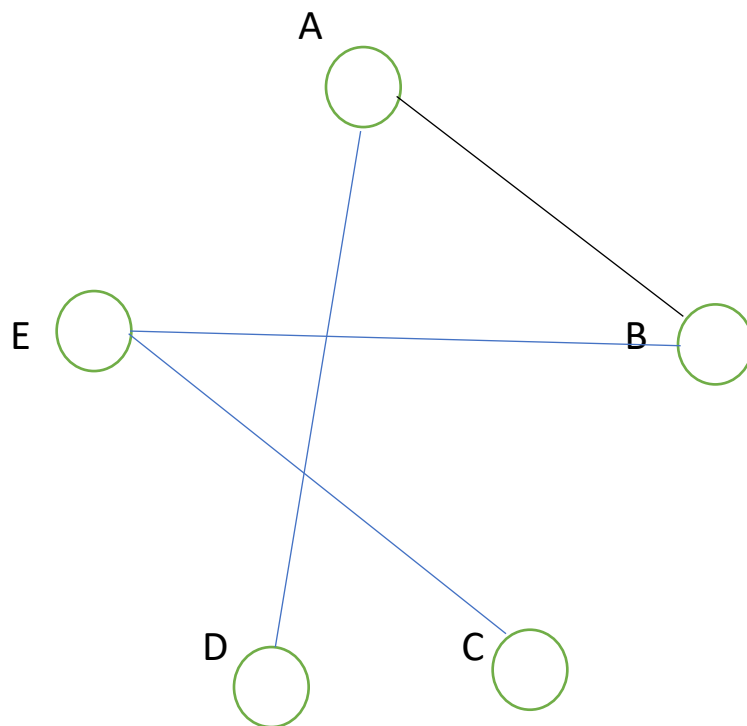


Lecture 7 measures of density for the entire graph

1) Density measure

Assuming the graph/network being undirected and binary graph,

$$\text{Density} = \frac{\sum \sum X_{i,j}}{C_N^2}$$



This graph has density = $4/10 = 40\%$,

$0 \leq \text{Density} \leq 1$ or 100%, with closer to 0 means low connectivity, and closer to 1 or 100% means great connectivity.