AQ 9.3: Activity Question 3 - Not Graded

**This assignment will not be graded and is only for practice.**

**Note : This activity is for your practice purpose only. Your score in this will not count towards the Final score.**  
  
The given below statements are based on ”Scores” dataset explained in the lecture. State whether the following statements are true or false.

***1 point***

In a clique elements are connected by undirected edges on the basis of their similarity.

True

False

***1 point***

An element should have n*n* number of edges in a clique of n elements.

True

False

***1 point***

How many edges a clique of n*n* vertices will have?

n*n*

n∗(n−1)*n*∗(*n*−1)

n∗(n−1)2*n*∗2(*n*−1)​

(n−1)(*n*−1)

***1 point***

Consider there are 1515 telephone booths on an island. Is it possible to connect them with wires so that each telephone booth is connected with exactly 55 other telephone booths.

Yes

No

**Consider the given graph and answer the following question 5 & 6:**A network diagram with circles and lines

AI-generated content may be incorrect.

***1 point***

Which of given list(s) represent a clique?

L=[1,2,3]**L**=[1,2,3]

L=[1,2,3,4]**L**=[1,2,3,4]

L=[1,2,3,4,5]**L**=[1,2,3,4,5]

L=[1,3,4,5]**L**=[1,3,4,5]

L=[1,4,3,5]**L**=[1,4,3,5]

***1 point***

How many edges we have to add in order to convert the given graph into a clique of size 55

1

2

3

4