AQ10.1: Activity Question 1 - 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.  
  
State whether the following statements are true or false.**

***1 point***

Adjacency matrix is a square matrix used to represent a graph.

True

False

***1 point***

Adjacency matrix is always symmetric.

True

False

**(Use the below information for question number 3 to 7 only)**  
  
Consider the table generated from a graph. Here A,B,C**A**,**B**,**C** and D**D** are the names of stations and entries in each cell are distances covered by trains from starting station to ending station. Here the starting stations for the trains are mentioned in the rows and ending stations are mentioned in columns. Zero represents that there is no direct train between those two stations. Analyse the table and answer the questions below.  
  
A table with numbers and letters

AI-generated content may be incorrect.

***1 point***

If we convert the above table to a graph then we will obtain a directed graph.

True

False

***1 point***

How many edges will be there in the graph?

At least 6

At most 6

Exactly 6

Exactly 4

At least 4

***1 point***

What is the minimum distance a passenger has to travel from station A**A** to station D**D**?

200

100

300

Travelling from station A**A** to station D**D** is not possible

***1 point***

What is the minimum distance a passenger have to travel from station C**C** to station A**A**?

600

100

800

Travelling from station C**C** to station A**A** is not possible

***1 point***

What is the minimum distance a passenger have to travel from station D**D** to station A**A**?

500

100

300

Travelling from station D**D** to station A**A** is not possible