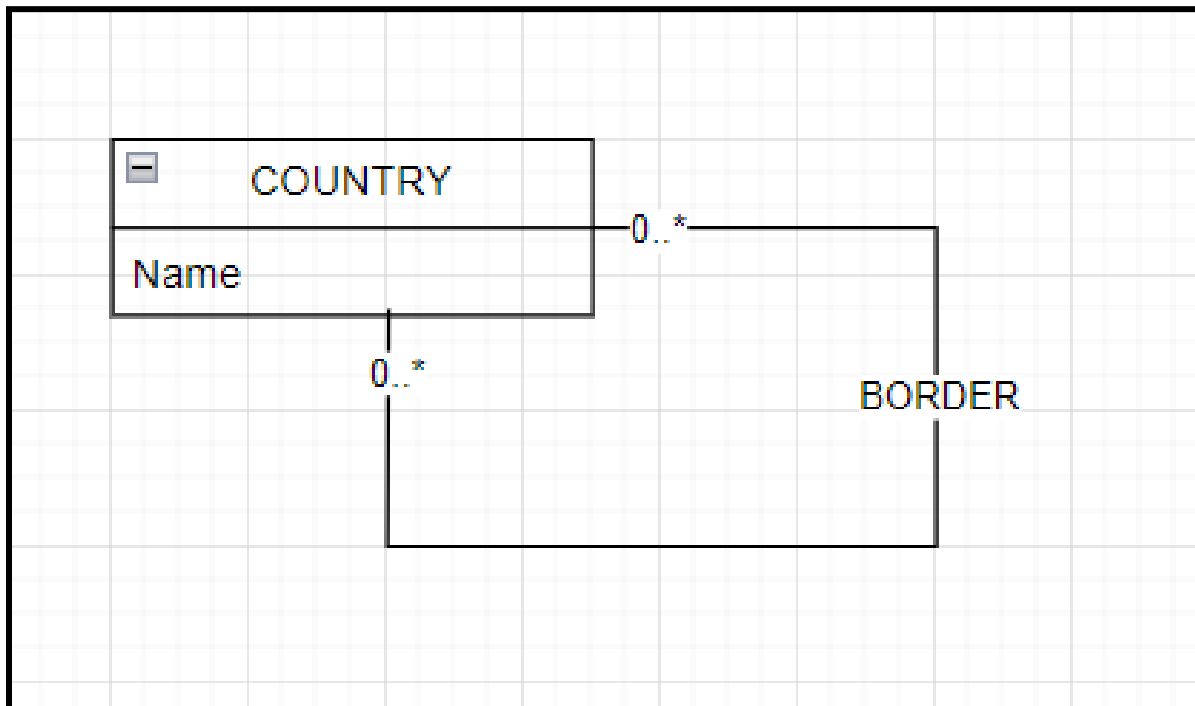
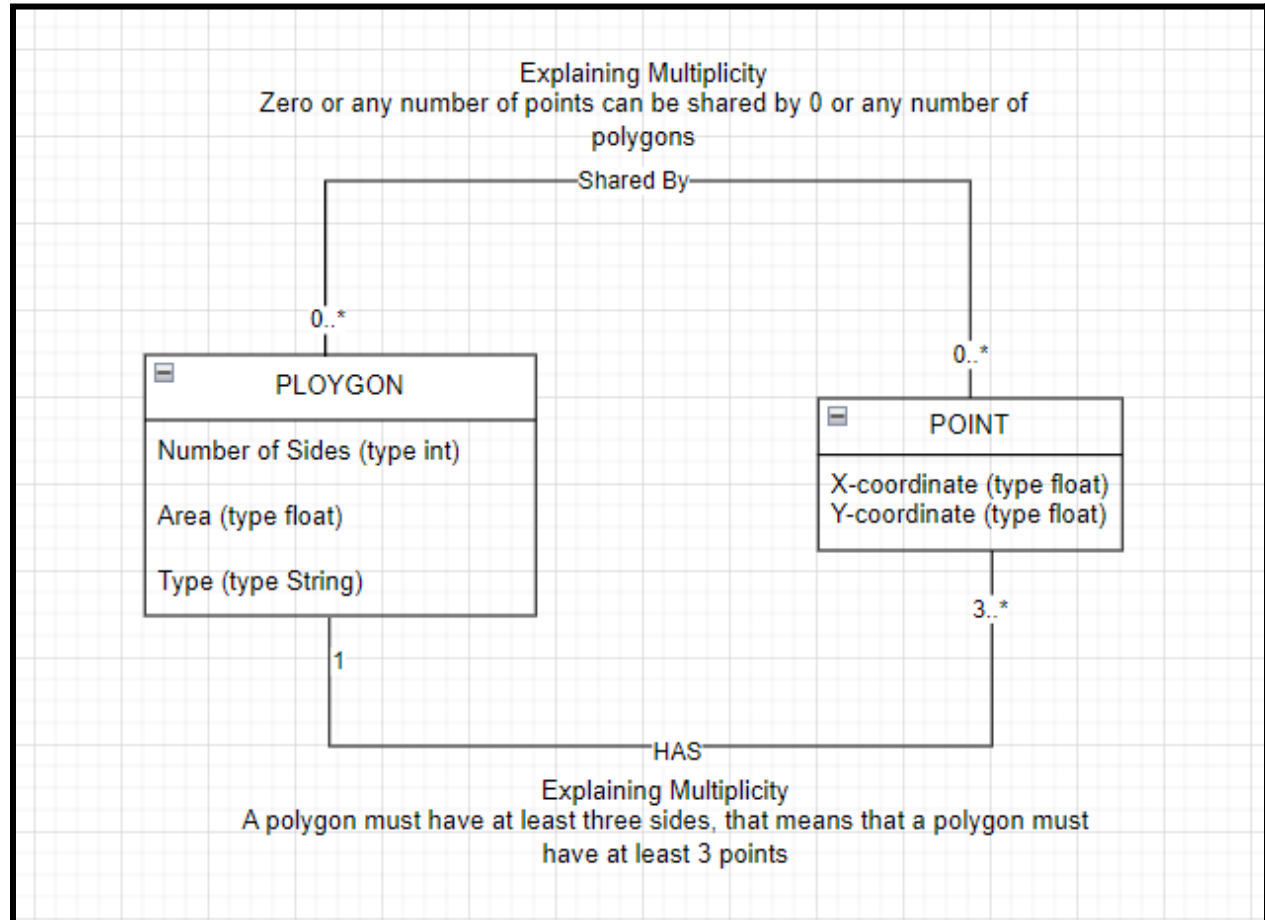


**IT 314 Lab 4 - Class Diagrams**  
**Submitted By - Dev Darpesh Soni**  
**ID: 202201418**

**Question 1 :**



## Question 2:



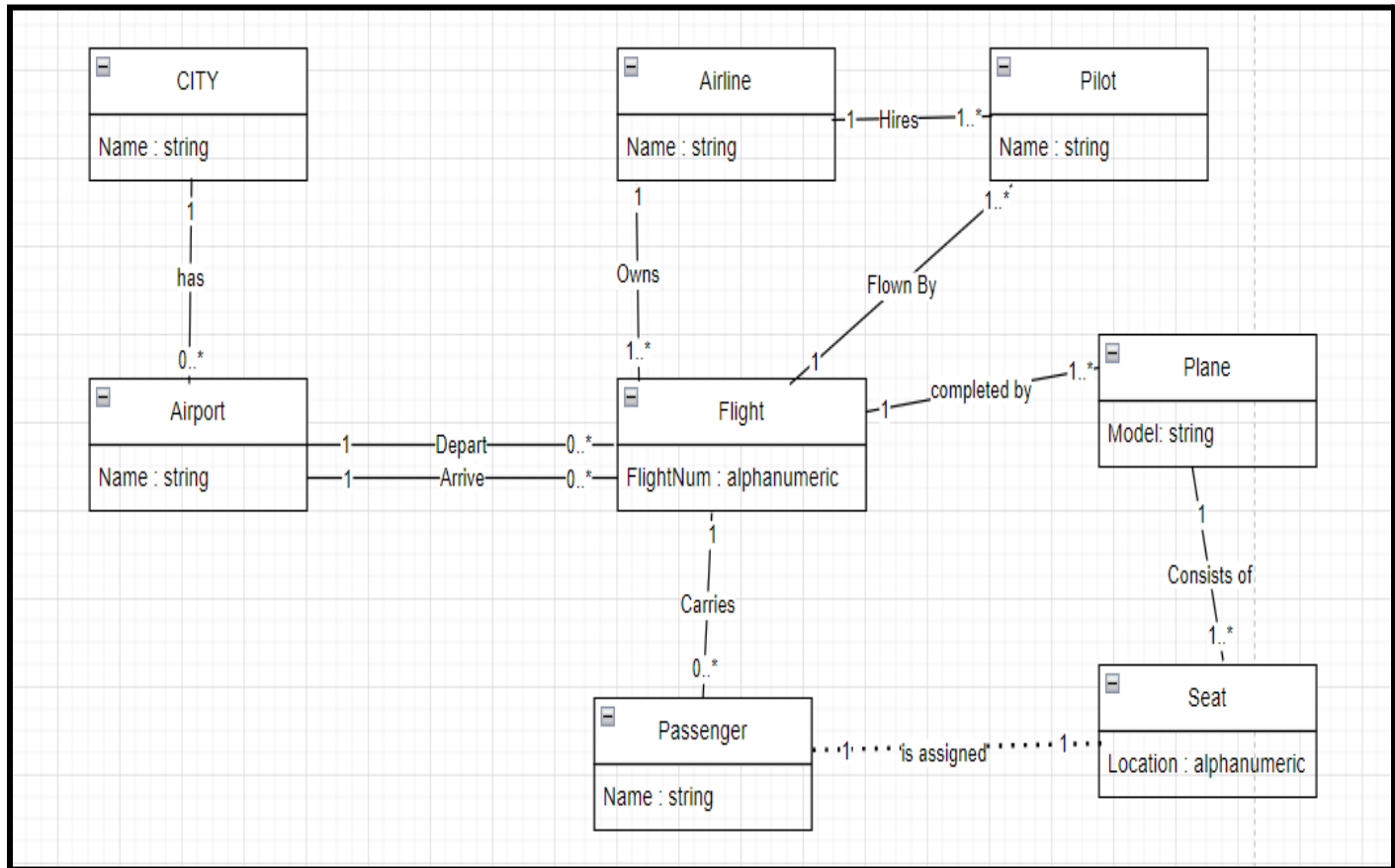
Q: Does it make a difference whether or not points may be shared between polygons?  
Your answer should address the fact that points are ordered

A: **It does make a difference**, between associativity of the polygon and points class  
If points are shared then or more polygons will be sharing a vertex or sides, whereas if points are not shared, the polygons will be distinct

Q: Does the order of the points matter?

A: **Yes**, the order of points also matters because it determines how the polygons are constructed. For example, if two polygons share two points in the same sequence, they share an edge. If the order is reversed, they may overlap or create a different boundary.

### Question 3:



## Question 4:

