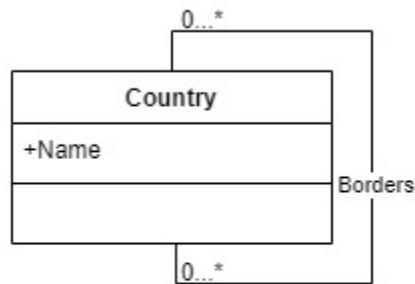


IT 314
LAB 4 : Class Diagram



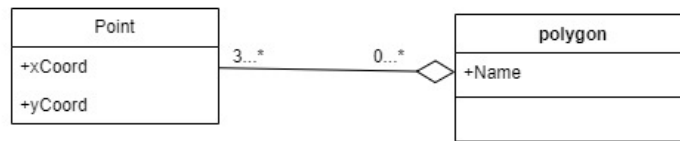
NAME: PATEL MIHIRKUMAR SURESHBHAI
STUDENT ID: 202201506

QUESTION-1

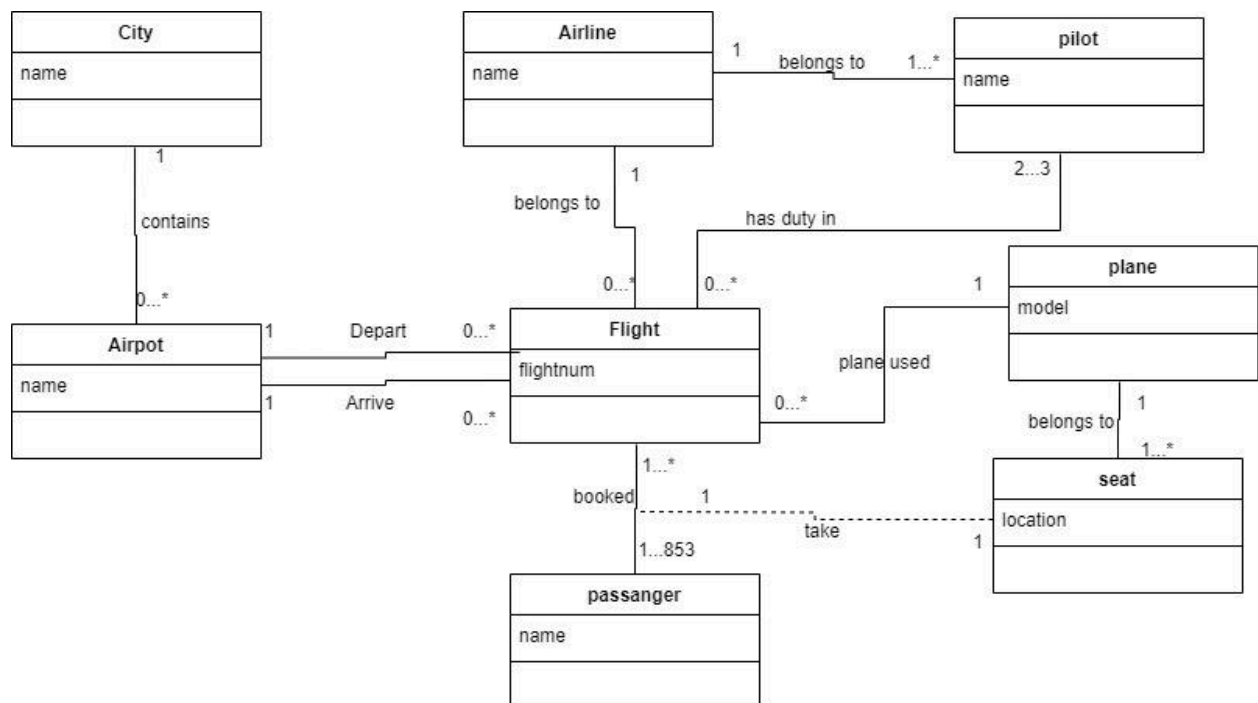


QUESTION-2

- **Smallest number of points required to construct a polygon is 3.**
- **Sharing Points:** If points can be shared between polygons, the minimum number of distinct points required to form a polygon still remains three. For example, if you have three points forming a triangle, you can use these same three points to form multiple triangles or other polygons (such as overlapping triangles or more complex shapes).
- **Order Matters:** The points must be ordered correctly to define the shape of the polygon. The sequence in which the points are connected determines the edges of the polygon and how it is drawn.



QUESTION-3



QUESTION-4

