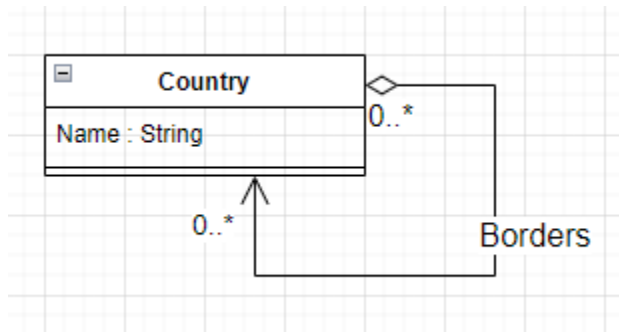# IT314 - Software Engineering

Lab4 - Class Modeling
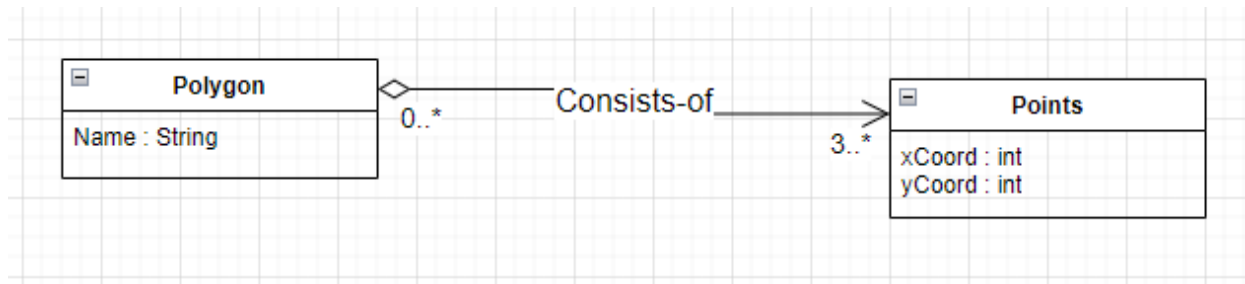
Krutarth Kadia - 202201475

Question - 1 :
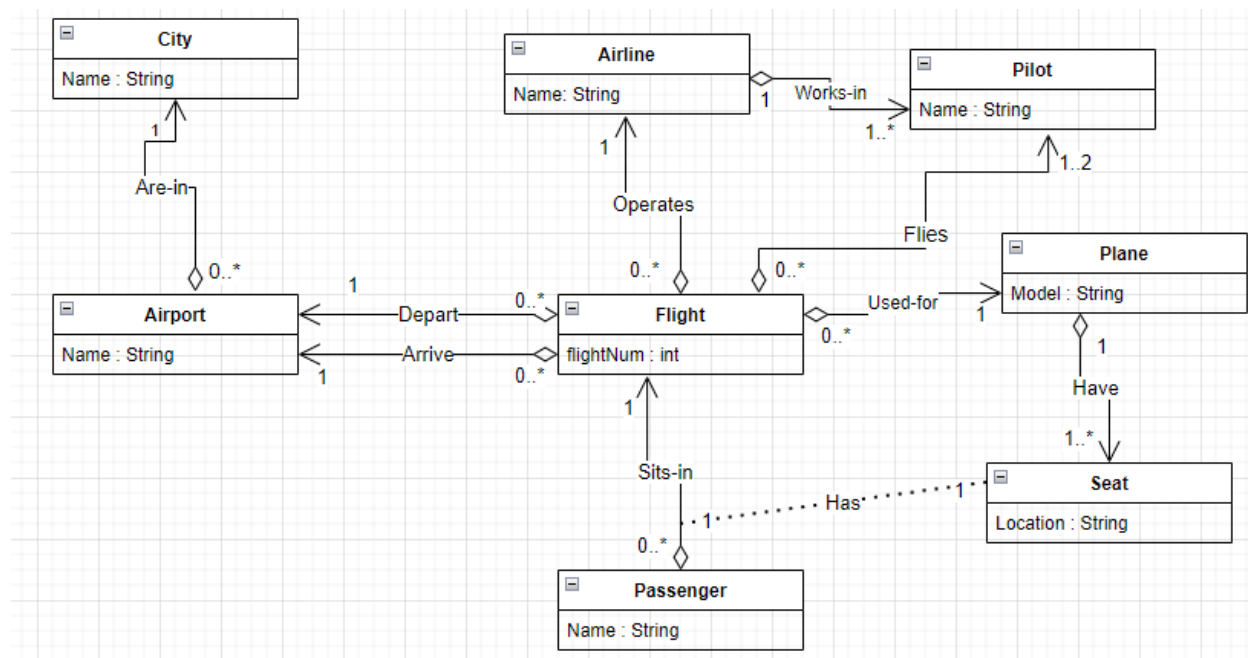

Question - 2 :

Minimum points to create polygon - 3 (for triangle)

Question - 3 :

First Diagram

City
Name : String

Airline
Name: String

Pilot
Name : String

1 — Works-in — 1..*

Airport
Name : String

Flight
flightNum : int

Plane
Model : String

Seat
Location : String

Passenger
Name : String

Are-in — 1 / 0..*

Operates — 1 / 0..*

Depart — 1 / 0..*

Arrive — 1 / 0..*

Flies — 0..*

Used-for — 0..* / 1

Have — 1 / 1..*

Sits-in — 1 / 0..*

Has — 1 1

1..2

Question - 4 :

Aircraft
ID : String
State : String
Status : String

Airline
ID: String

Pilot
ID : string
experiencelevel : int (1-3)
type : String

Aircrafttype
type : string
requirepilots : int

Airport
ID : String

Flight
ID : String
depAirport : String
arrAirport : String
deptime : Time
arrtime : Time

Owns — 1 / 1 / 0..*

Have — 0..*

Contains — 1..*

Has — 1..* / 1

Consists-of — 1..*

Operates — 1 / 0..*

Depart — 1 / 0..*

Arrive — 0..*

2