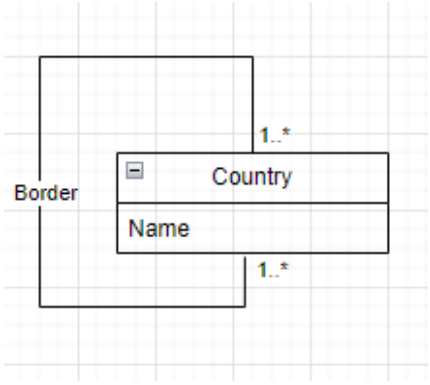
LAB - 4

ID - 202201488

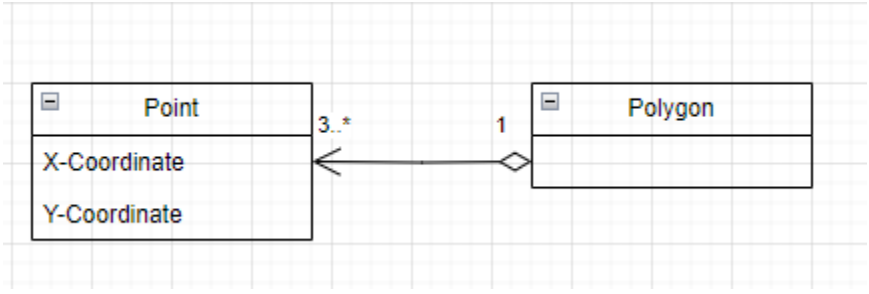
Name - Malay Sidapara

Lab Group - 6

Question 1 :

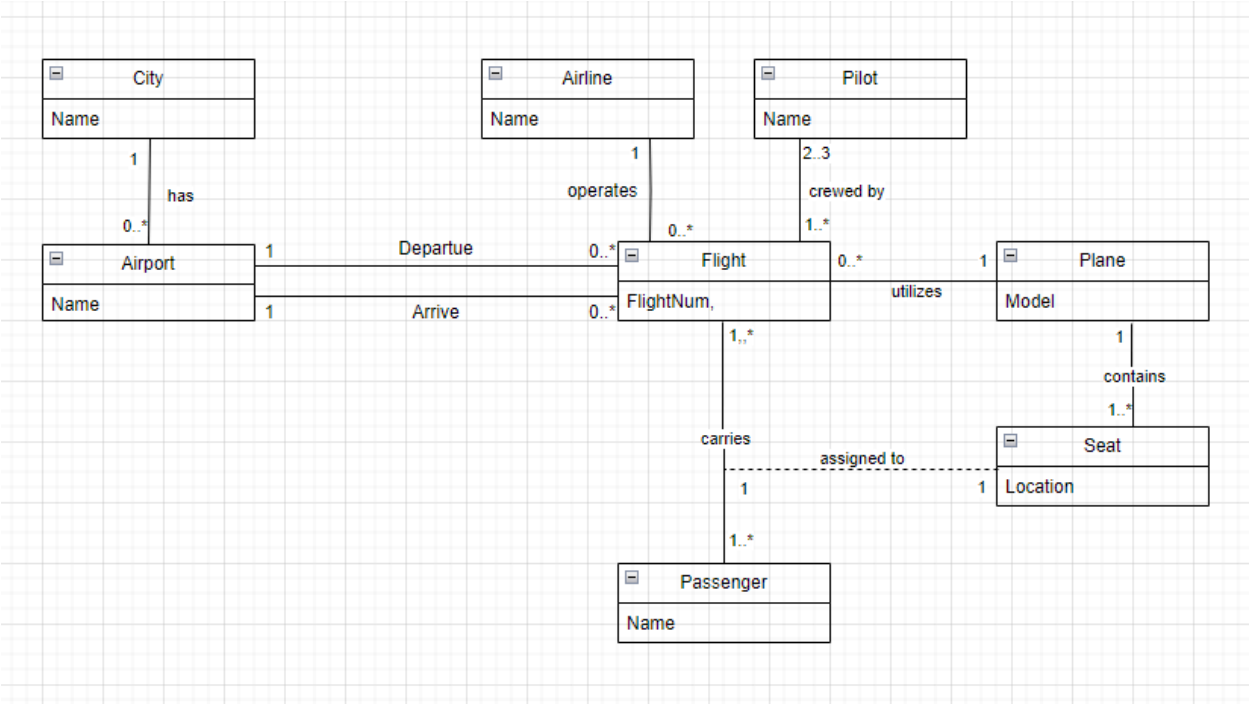


Question 2 :

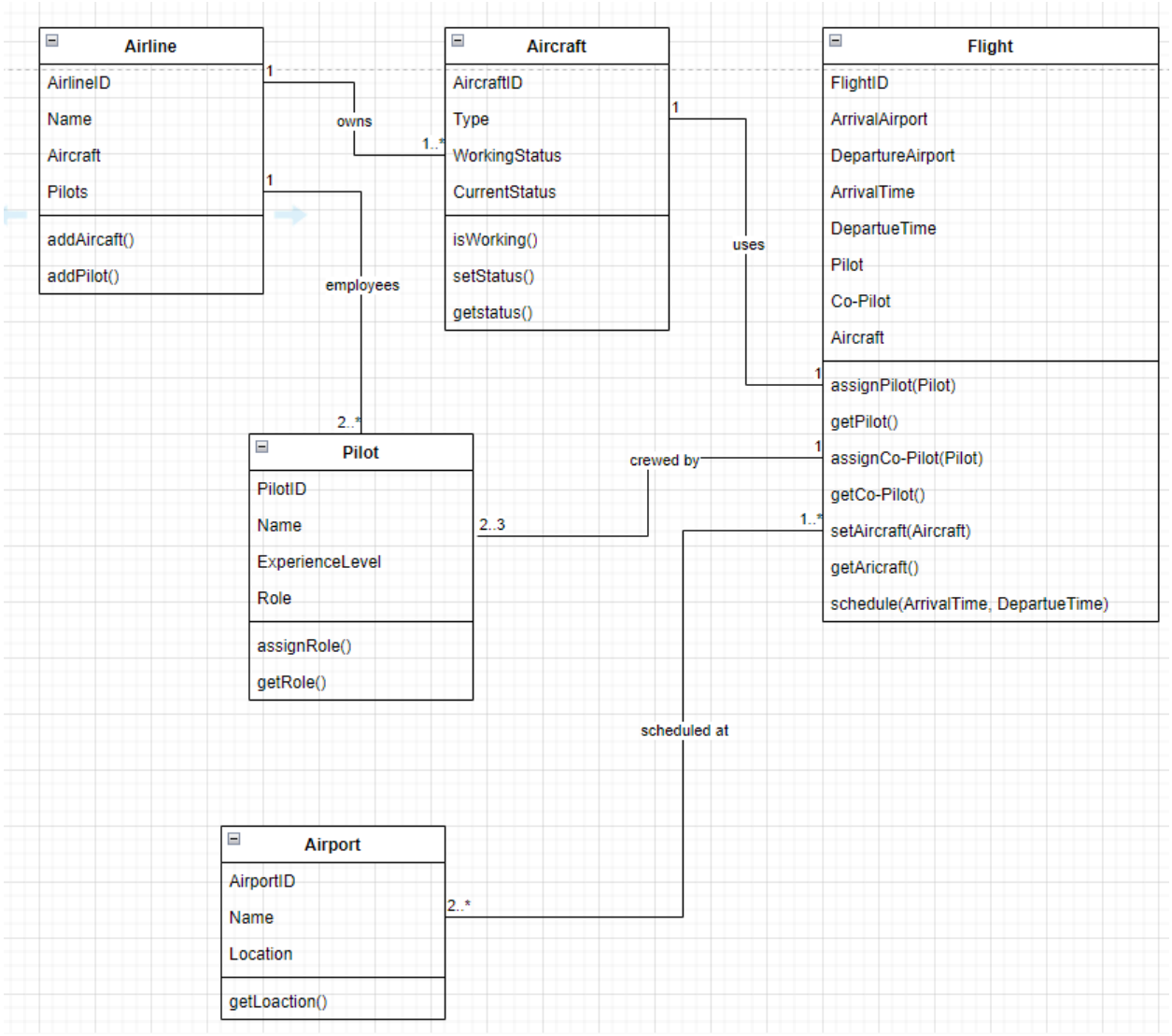


The smallest number of points required to construct a polygon is 3 because the smallest polygon you can have is a triangle.
Points can be common among multiple polygons, often seen in geometric layouts where distinct polygons share vertices.
The order of points within a polygon is crucial as it helps establish the boundaries of the shape.

Question 3 :


City
Name
Airline
Name
Pilot
Name
1
has
0..*
1
operates
0..*
2..3
crewed by
1..*
Airport
Name
1
Departue
0..*
1
Arrive
0..*
Flight
FlightNum,
0..*
utilizes
1
Plane
Model
1
contains
1..*
1,,*
carries
1
1..*
assigned to
1
Seat
Location
Passenger
Name

Question 4 :



Airline
AirlineID
Name
Aircraft
Pilots
addAircaft()
addPilot()
Aircraft
AircraftID
Type
WorkingStatus
CurrentStatus
isWorking()
setStatus()
getstatus()
Flight
FlightID
ArrivalAirport
DepartureAirport
ArrivalTime
DepartueTime
Pilot
Co-Pilot
Aircraft
assignPilot(Pilot)
getPilot()
assignCo-Pilot(Pilot)
getCo-Pilot()
setAircraft(Aircraft)
getAricraft()
schedule(ArrivalTime, DepartueTime)
Pilot
PilotID
Name
ExperienceLevel
Role
assignRole()
getRole()
Airport
AirportID
Name
Location
getLoaction()
owns
employees
uses
crewed by
scheduled at
1
1..*
1
2..*
1
1
2..3
1..*
2..*