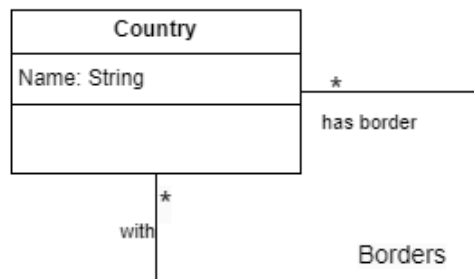# IT 314
SOFTWARE ENGINEERING

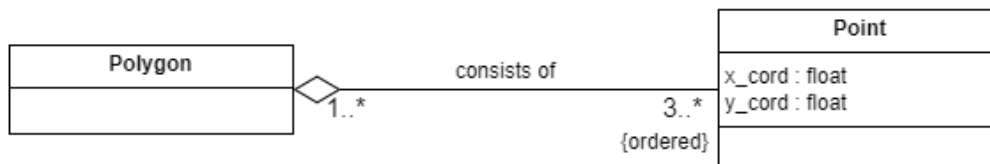# LAB 4

Name: Dhriti Goenka
ID: 202201041

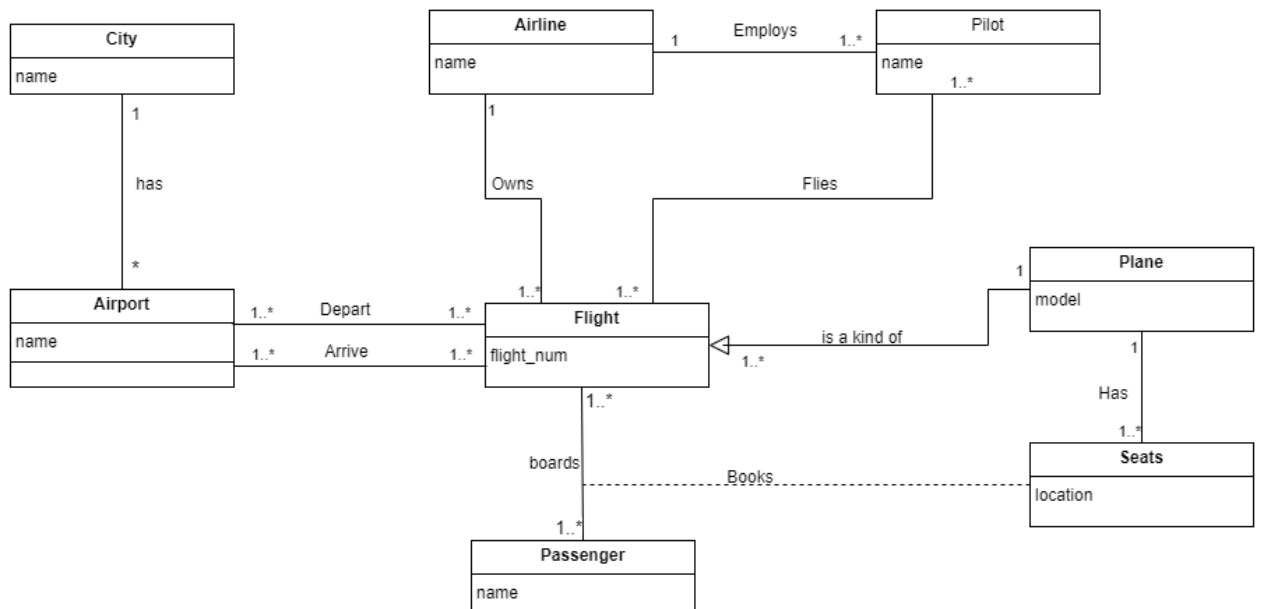Q1)

Country
Name: String

* has border

* with

Borders

Q2)

Polygon

1..* consists of 3..* {ordered}

Point
x_cord : float
y_cord : float

Q3)

City
name

has
1
*

Airline
name

Employs
1   1..*

Pilot
name

1..*

Owns
1

Flies

Plane
model
1

Airport
name

1..*   Depart   1..*

1..*   Arrive   1..*

Flight
flight_num

1..*   Owns   1..*

is a kind of
1..*

1

Has
1

1..*

Seats
location

boards

Books

1..*

Passenger
name

Q4)

Fulfils

Pilot
name : string
experience : int(0 to 3)
role : string

isCaptain() : bool
canFly(AircraftType) : bool

1..*

Employs
1

1..*

Airline
id : int

1

Requirements
number_of_pilots : int
roles : string

1..*

1

Owns

consists of

2

1..*

1..*

Airport
name

1..*   Depart   1..*

1..*   Arrive   1..*

Flight
flight_id : int
departure_time: time
arrival_time : time

1..*

is a kind of
1

1..*

Aircraft
type : string
working_status: string
flying_status : string