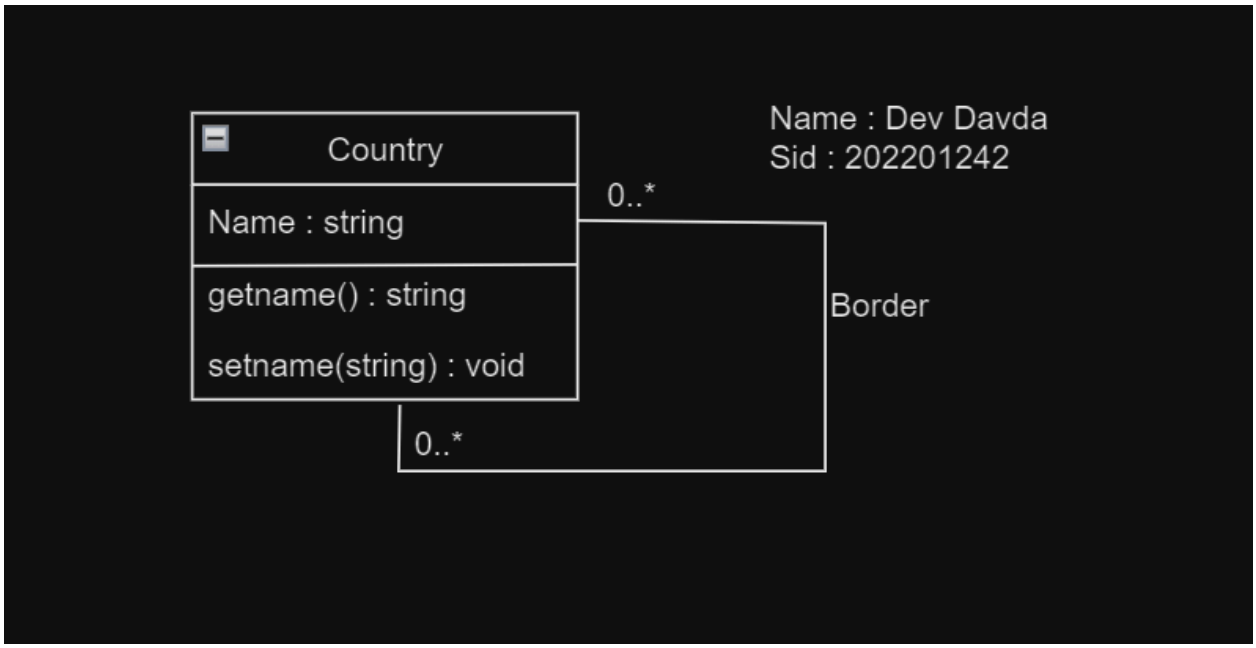
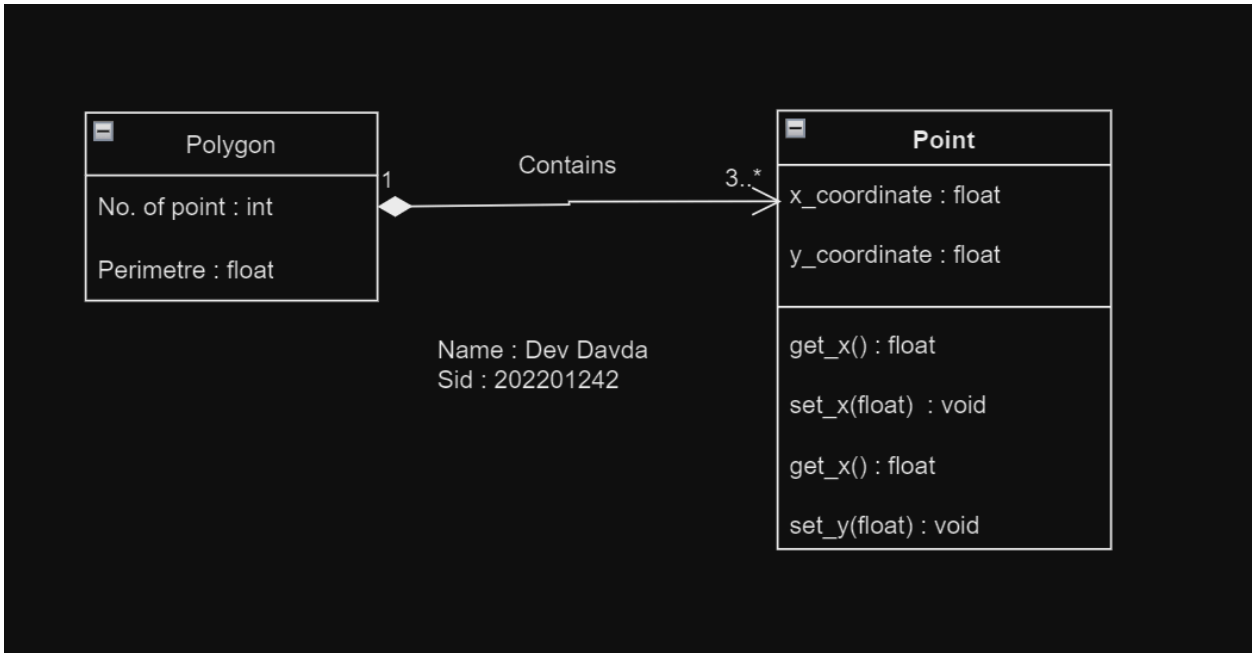
Software Engineering Lab-4

202201242

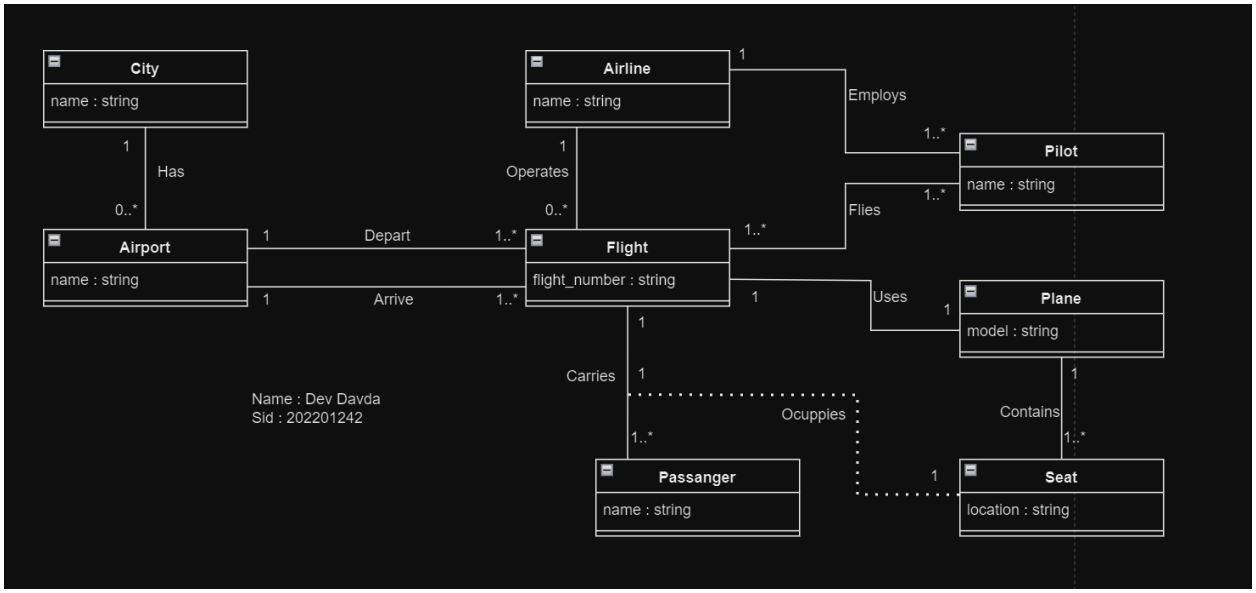
Q.1



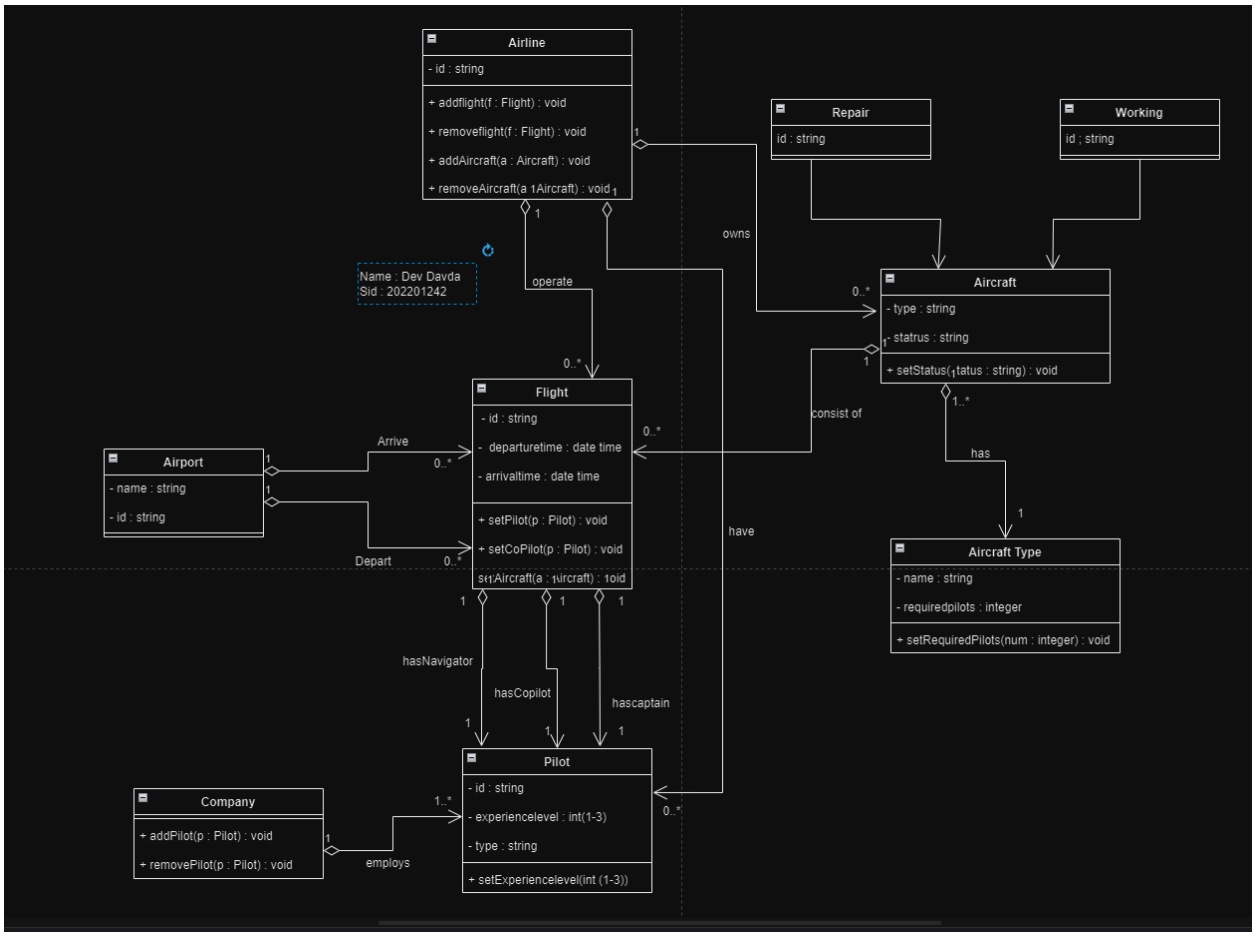
Q.2


Polygon
No. of point : int
Perimetre : float
1
Contains
3..*
Point
x_coordinate : float
y_coordinate : float
get_x() : float
set_x(float) : void
get_x() : float
set_y(float) : void
Name : Dev Davda
Sid : 202201242

Q.3


City
name : string
Has
Airline
name : string
Employs
Pilot
name : string
Operates
Flies
Airport
name : string
Depart
Arrive
Flight
flight_number : string
Uses
Plane
model : string
Carries
Ocuppies
Contains
Passanger
name : string
Seat
location : string
Name : Dev Davda
Sid : 202201242

Q.4


Airline
- id : string
+ addflight(f : Flight) : void
+ removeflight(f : Flight) : void
+ addAircraft(a : Aircraft) : void
+ removeAircraft(a 1Aircraft) : void
Repair
id : string
Working
id ; string
Name : Dev Davda
Sid : 202201242
operate
owns
Aircraft
- type : string
- statrus : string
+ setStatus(1tatus : string) : void
Flight
- id : string
- departuretime : date time
- arrivaltime : date time
+ setPilot(p : Pilot) : void
+ setCoPilot(p : Pilot) : void
Airport
- name : string
- id : string
Arrive
Depart
consist of
has
have
Aircraft Type
- name : string
- requiredpilots : integer
+ setRequiredPilots(num : integer) : void
hasNavigator
hasCopilot
hascaptain
Pilot
- id : string
- experiencelevel : int(1-3)
- type : string
+ setExperiencelevel(int (1-3))
Company
+ addPilot(p : Pilot) : void
+ removePilot(p : Pilot) : void
employs