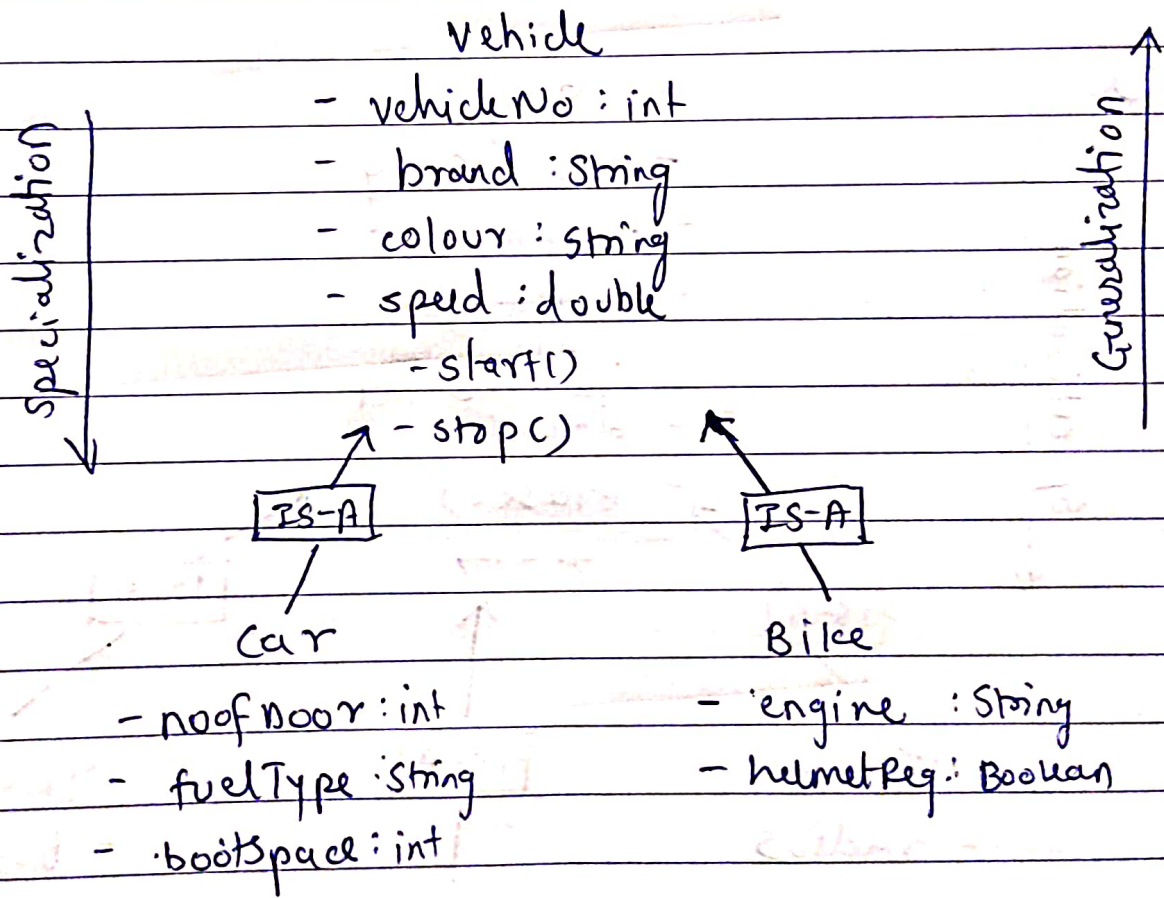
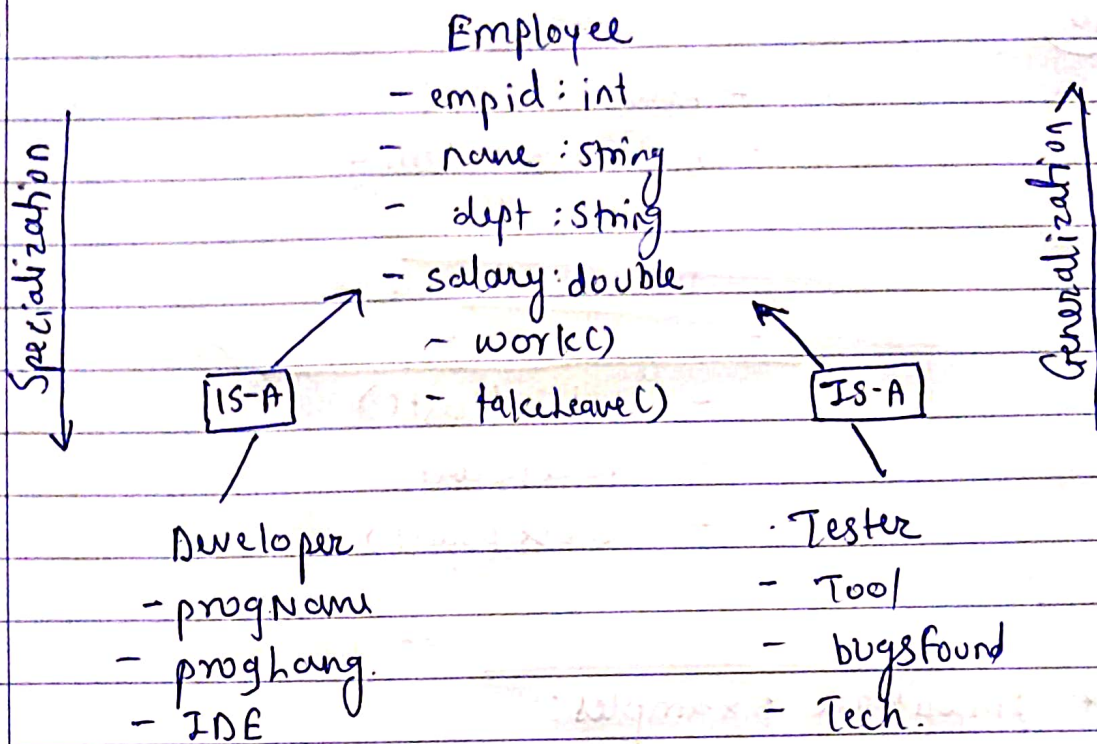


## \* Inheritance Examples:

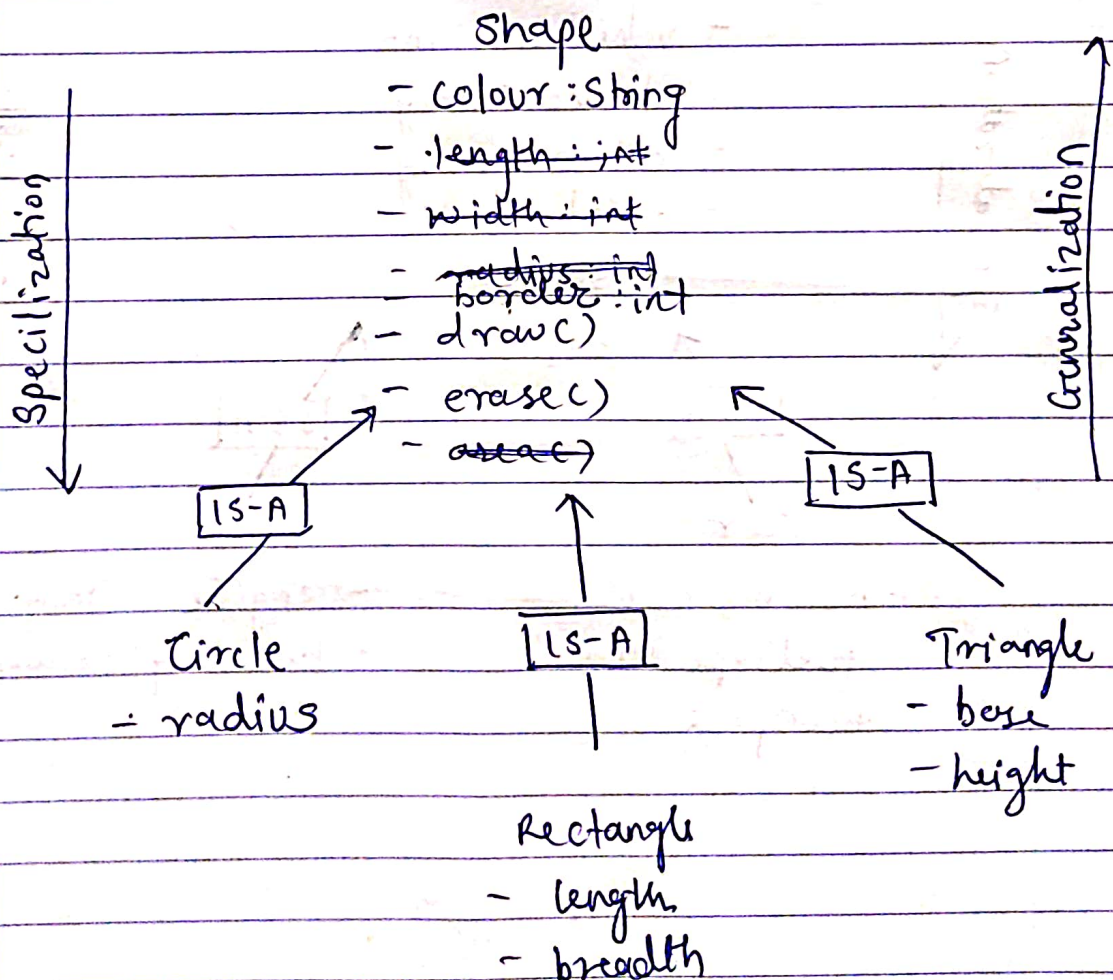
①



②



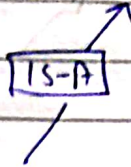
③





(5)

Specialization  
↓

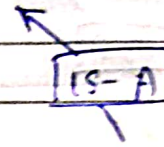


UGStud

- semester
- internship

Student

- rollNo : int
- name : string
- course : string
- attend (course)
- giveExam()



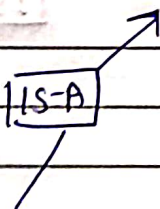
PGStud

- researchTopic
- thesis

Generalization  
↑

(5)

Specialization  
↓

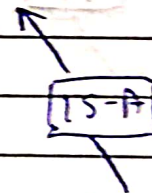


Doctor

- specialization
- fee
- Edu<sup>n</sup>

Staff  
~~Hospital~~

- staffid : int
- name : string
- dept : string
- salary : double
- workshift()
- treatment()



Nurse

- dutyHr.
- Ward
- role

Generalization  
↑

⑥

Specialization

IS-A

Book

- isbn
- publisher
- pages

Library Resource

- res-id : int
- title : String
- author : String
- issue()
- return()

IS-A

Research Paper

- Conference Paper
- citations

Generalization

⑦

Specialization

IS-A

Online

- platform
- video ltrs.

Course

- C-id : int
- C-name : String
- dur<sup>n</sup> : int
- fees : double
- enroll()
- conductExam()

IS-A

Offline

- Class-No.
- Faculty

Generalization

⑧

Specialization

IS-A

Debit Card

- link Acc.
- withdraw limit

Card

- cardNo : int
- holderName : String
- expiry : String
- cvv : int
- swipe()
- Balance()

IS-A

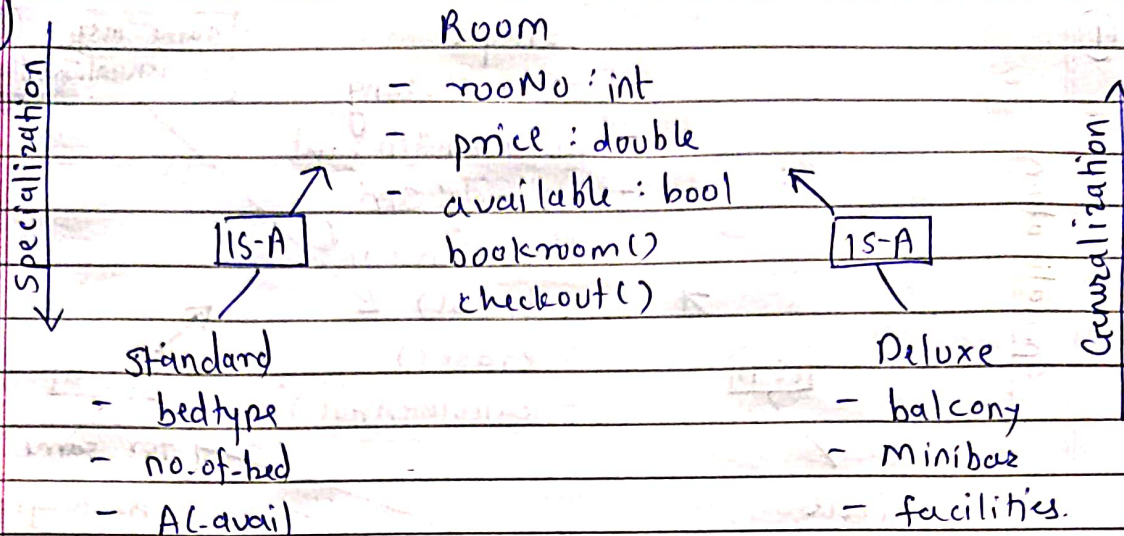
Prepaid Card

- recharge Amt
- validity

Generalization



9)



10)

