

Modern Programming

Winter Term 2021/2022

Exercise sheet 2

Submitted by

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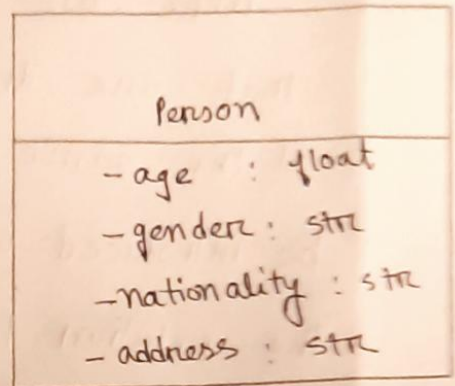
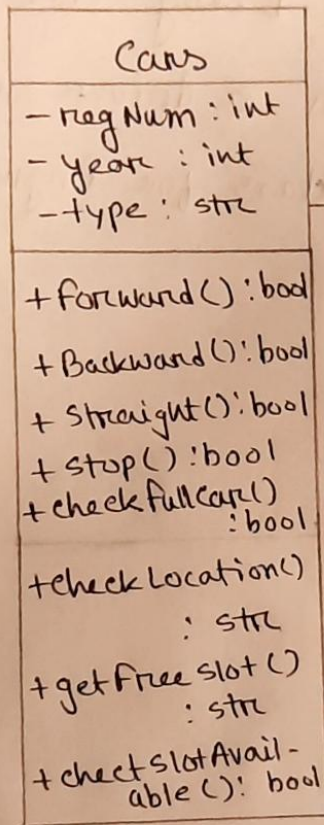
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Exercise 2

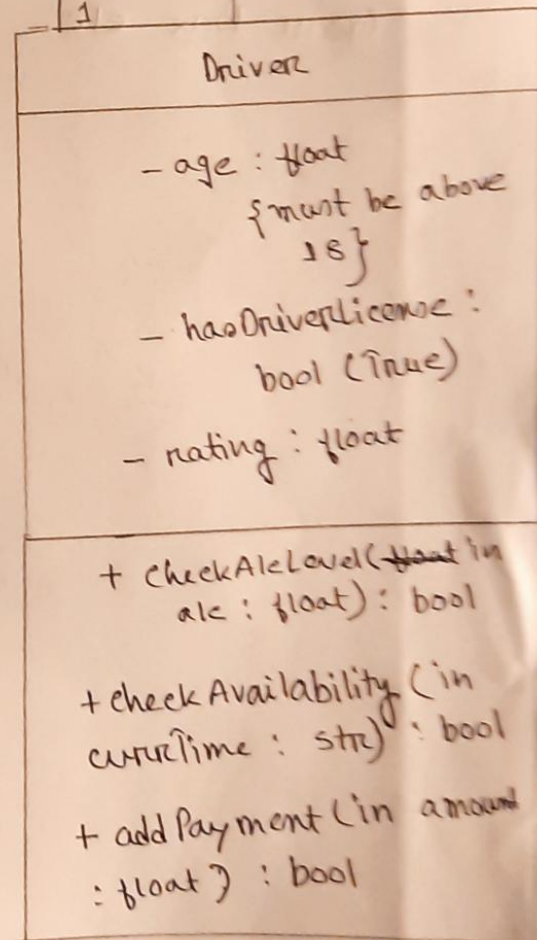
1

UML Class Diagram for Cars & Drivers

~~Driver~~



Inheritance



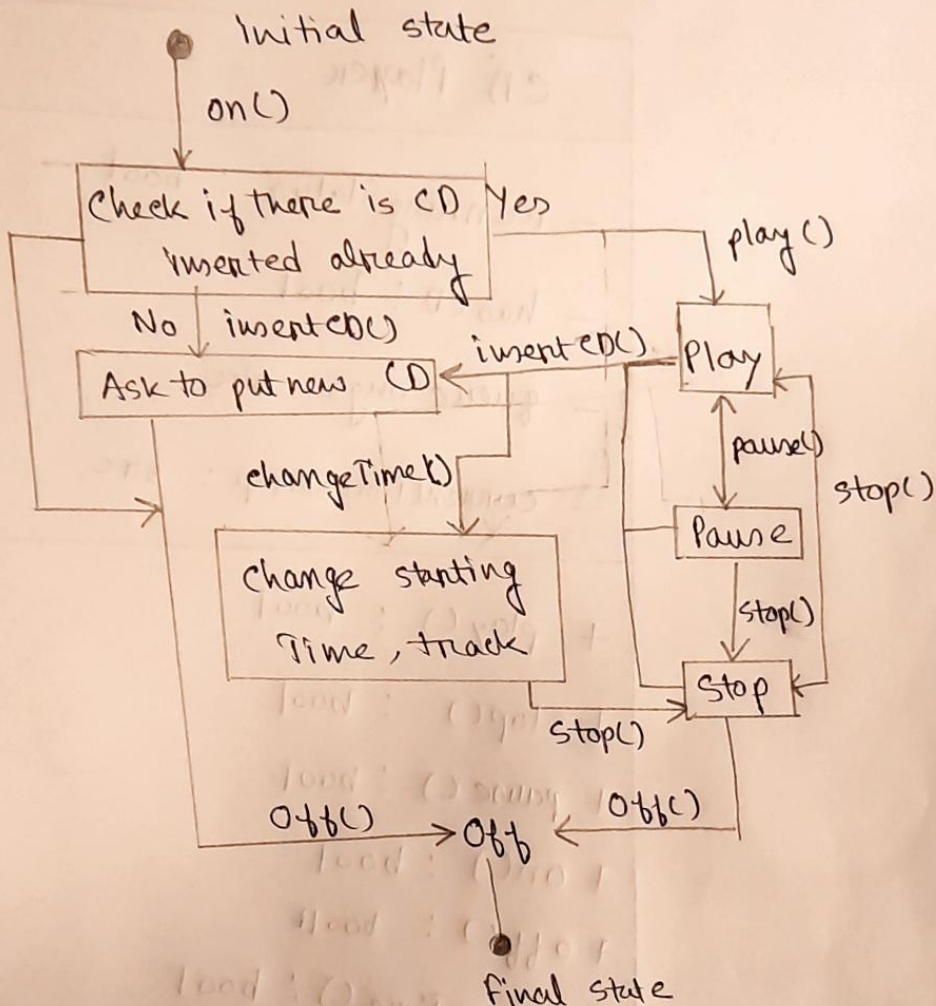
P.T.O.

Here, we consider a 1 multiplicity, meaning that one driver can drive only one car at the same time. Complex ~~to~~ class diagram can be introduced where Booking class can express the relation between a driver and a car. Car can have subclass for Engine, Wheel, Gear Box etc.

Exercise 3

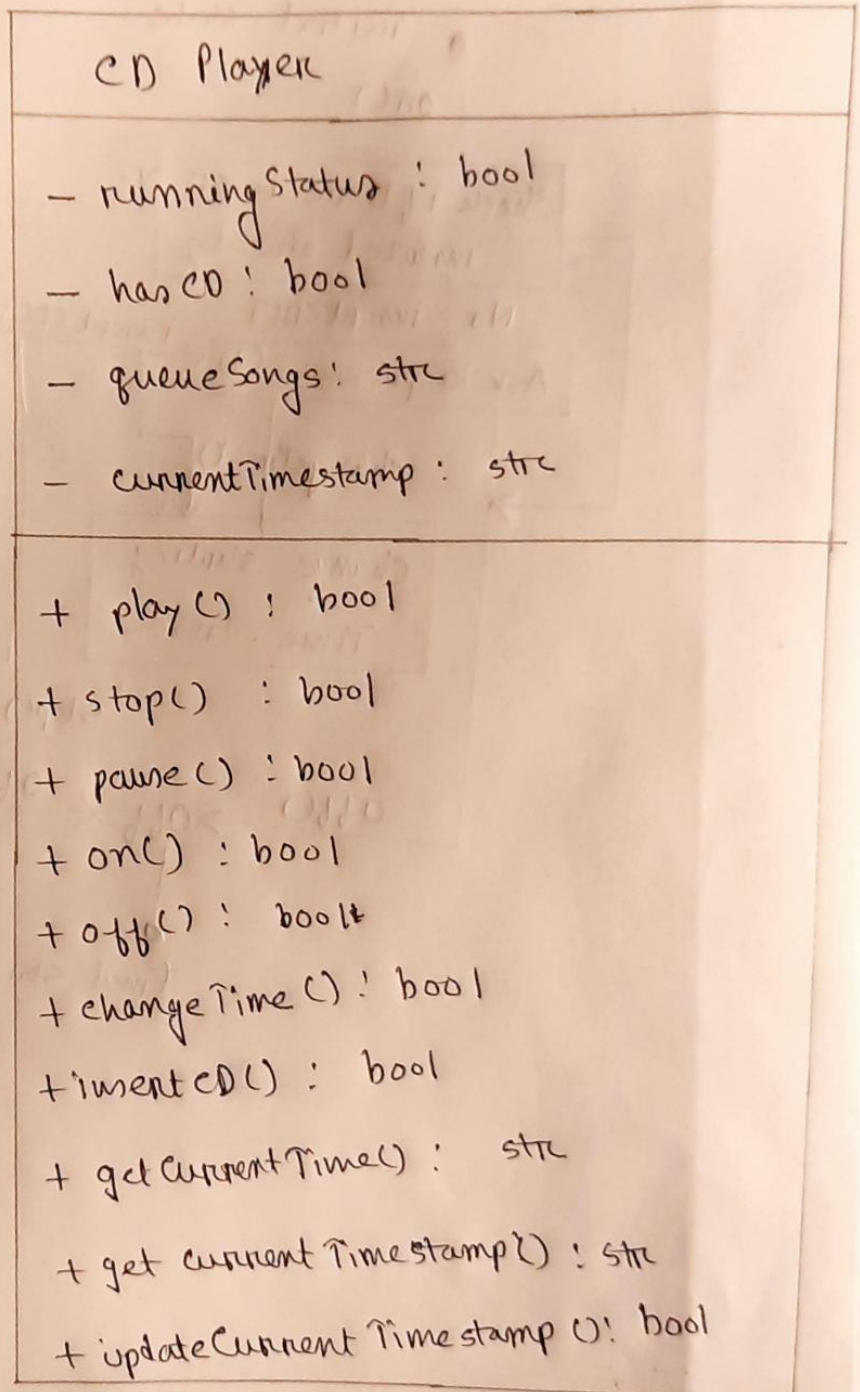
3

a) State Diagram for CD Players



4

b) Class Diagram for CD player



getCurrentTime() method will return the time of the CD we are playing. We can have some setter method to change attributes.