Modern Programming
Winter Term 2021/2022
Exercise Sheet 2

Submitted by

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UML class Diagram for Caro a Drivero Penson -age : gloat Druve -gender: str -nationality: str Cars - reg Num: int - address : STR - year : int Inheritance -type: stre + forward (): bod Driver + Backward (): bool + Straight (): bool - age: Hoat + stop () !bool {must be above + check full core!) teheck location() - has Oriverlicense: · str bool (Inue) + get Free slot () - rating: float + chect slot Available ()! bool + CheckAleLovel(Host in ale: float): bool + check Availability (in curuclime: stre) : bool + add Payment Lin amount

: float) : bool

Here, we consider a 1 multiplicity, meaning that one driver can drive only one correct at the same time. Complex to class diagram can be introduced where Booking class can express the relation between a driver and a carr. Can can have subclass for Engine, wheel, Great Box ete.

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Character of the

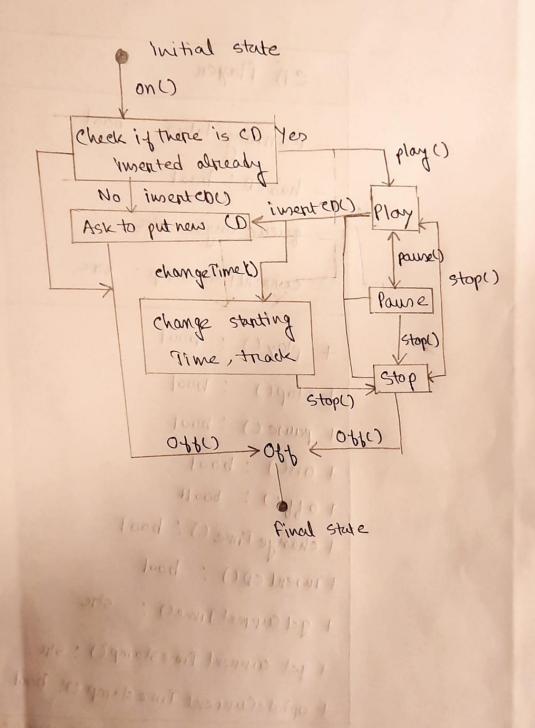
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food: (post

a) State Diagram for CD Players



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b) Class Diagram for CD player

```
CD Player
     - running Status: bool
     - has co! bool
     - queue Songs! stre
       current Timestamp: strc
    + play (): bool
    + stop() : bool
+ pause () : bool
    + on() : 6001
    + 0ff(); pools
    + change Time () ! bool
    timented(): bool
    + get Current Time(): stre
     + get current Time stamp ); str
     + update Current Time stamp O! bool
```

get current Time () method will neturn the time of the con we any playing. We can have some setter method to change attributes.