

01/06/2021

2018/CSE0621

Sai Ram.K

6-CSE-10

Part - B

Q.4] Common Class Approach for Elevator System:-

- This approach is based on the knowledge base of the common classes that have been proposed by various researchers.

→ Object composition:-

- ① Elevator Control: The central controlling object is the elevator. It communicates & controls all other objects.
- ② Door: There are 2 doors in the system and they open & close according to situation stated in the use-case.
- ③ Car: The car is being controlled to move up and down to make necessary stops at floors.
- ④ Button: The button class is generalized into 2 sub classes called CarCallButton & HallCallButton. The control object communicates to get information if button is pressed & controls illumination of the light.
- ⑤ Indicator:- There are 2 kinds of indicator. The car position & direction indicator. It shows current position & direction of the car.
- ⑥ Safety: When an emergency occurs the elevator commands to safety according to documentation.

→ Class diagram :-

