This Elevator System Consists of Three subsystems; FloorSystem, SchedulerSubSytem, ElevatorSubSystem, and a Simulator to simulate the input and output.

Description of the Subsystems:

**The FloorSystem**

1. It creates an Array of floors to represent the number of floors
2. It turns on the Lamps according to the direction of the Elevator. turns off the lamp when the elevator has arrived, and turns on/off the light for button presses
3. It takes Messages from the Simulator where it takes the floor number from where the passenger has clicked the button and the requested direction of the passenger
4. It sends this messages to scheduler
5. The data communication is handled by a class called ‘MessageHandler’
   1. This class communicates with all the subsystems in the system
6. To see the Buttons and Lamps working for this subsystems individually, please create an instance of the FloorSystem Class and call the methods floorArrival and buttonPress with some demo parameters
7. A test method is included to check if the function calls are working properly

**The Simulator:**

1. Simulator generates the input of for the system

**The Elevator Subsystem:**