

# Mandatory Assignment 1

Group 1  
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This assignment is a part of the Advance Mobile and Distributed Systems Seminar.

## 1 Exercise 1, p. 12

$$\begin{aligned} SYSTEM_1 &\stackrel{\text{def}}{=} (v \text{ talk}_i, \text{switch}_i, \text{give}_i, \text{alert}_i : i = 1, 2) \\ &(\text{CAR}(\text{talk}_1, \text{switch}_1) | \text{Base}_1 | \text{IDLEBASE}_2 | \text{CENTRE}_1) \end{aligned} \quad (1)$$

$$\text{IDLEBASE}(t, s, g, a) \stackrel{\text{def}}{=} a.BASE(t, s, g, a) \quad (2)$$

$$BASE_i \stackrel{\text{def}}{=} BASE(\text{talk}_i, \text{switch}_i, \text{give}_i, \text{alert}_i) \quad (i = 1, 2) \quad (3)$$