Algorithm – JobHandler

Algorithm 1 Synchronous Job Handler

Implements:

      JobHandler, **instance** *jh*.

Uses:

 1: **upon event** $\langle\ jh, Submit\ |\ job\ \rangle$ **do**
 2:     PROCESS(job)
 3:     **trigger** $\langle\ jh, Confirm\ |\ job\ \rangle$;

Algorithm 2 Asynchronous Job Handler

Implements:

      JobHandler, **instance** *jh*.

Uses:

 1: **upon event** $\langle\ Init\ \rangle$ **do**
 2:     $buffer := \emptyset$
 3: **upon event** $\langle\ jh, Submit\ |\ job\ \rangle$ **do**
 4:     $buffer := buffer \cup \{job\}$
 5:     **trigger** $\langle\ jh, Confirm\ |\ job\ \rangle$;
 6: **upon event** $\langle\ buffer \neq \emptyset\ \rangle$ **do**
 7:     $job := $ SELECT(job)
 8:     PROCESS(job)
 9:     $buffer := buffer \setminus \{job\}$