1   Design a Skill for Door-opening

Declarative Knowledge			Procedural Knowledge	
1	Perception	find-door	A	door_found
2	Perception	find-handle	B	handle_found
3	Movement	go-to-pre-grasp	C	position_correct
4	Perception	recognise-handle-type	D	type_found
5	Movement	move-gripper-to-handle	E	position_correct
6	Movement	close-gripper	F	gripper_closed
7	Movement	turn-knob	G	type_knob
8	Movement	press-handle	H	type_handle
9	Perception	recognise-door-direction	I	position_correct
10	Movement	push-door	J	direction_found
11	Movement	pull-door	K	direction_forward
12	Movement	open-gripper	L	direction_backward
			M	door_opened

An example of the corresponding FSM is shown below.