23MX21 – State Transition Chart / Diagram

Start State

Event1[Guard1] /
Action1

State One

Event3[Guard3] /
Action3

Event4[Guard4] /
Action4
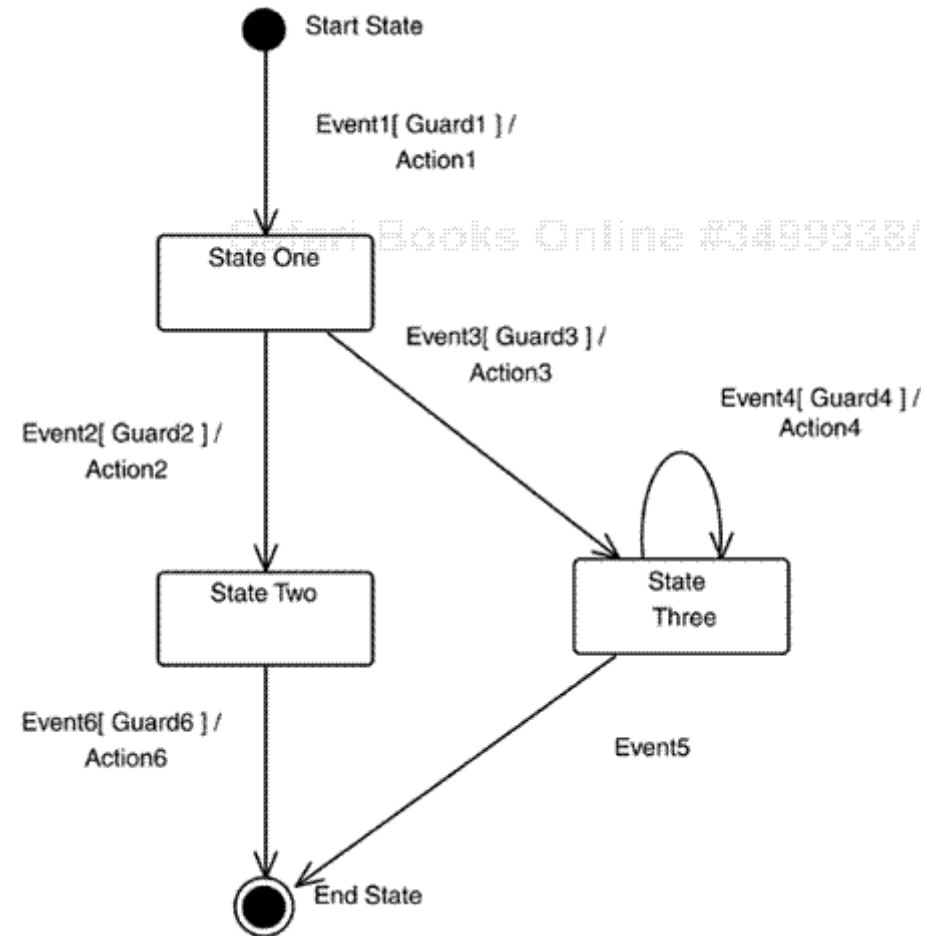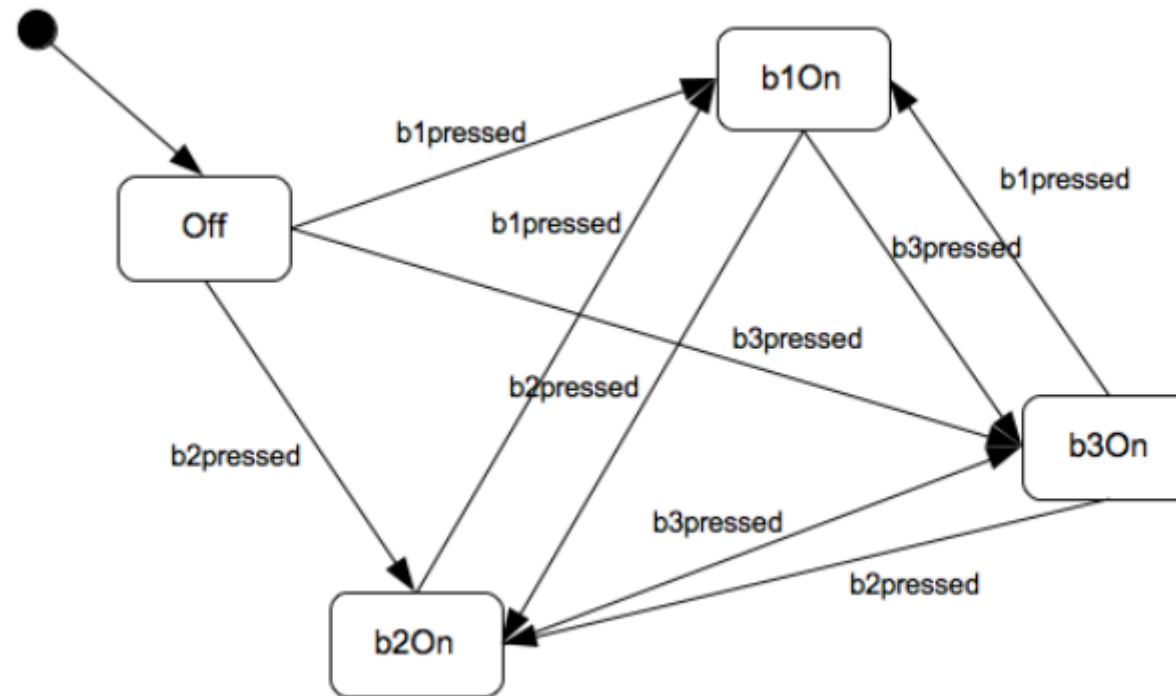
Event2[Guard2] /
Action2

State Two

State
Three

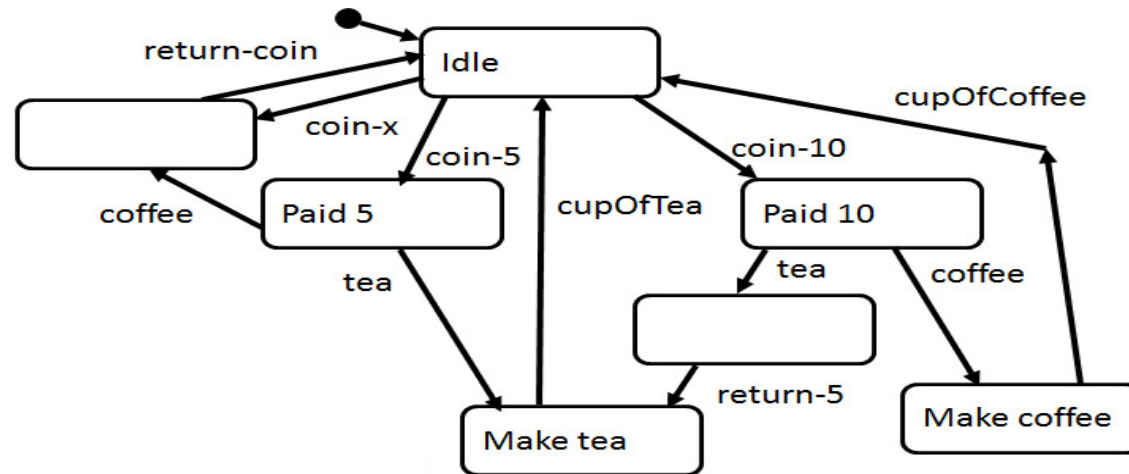Event6[Guard6] /
Action6

Event5

End State

Draw a state chart for a set of three radio buttons, b1, b2, and b3. The buttons are all initially off (un-pressed). Subsequently, if one button is pressed, it goes on and all the others go off.
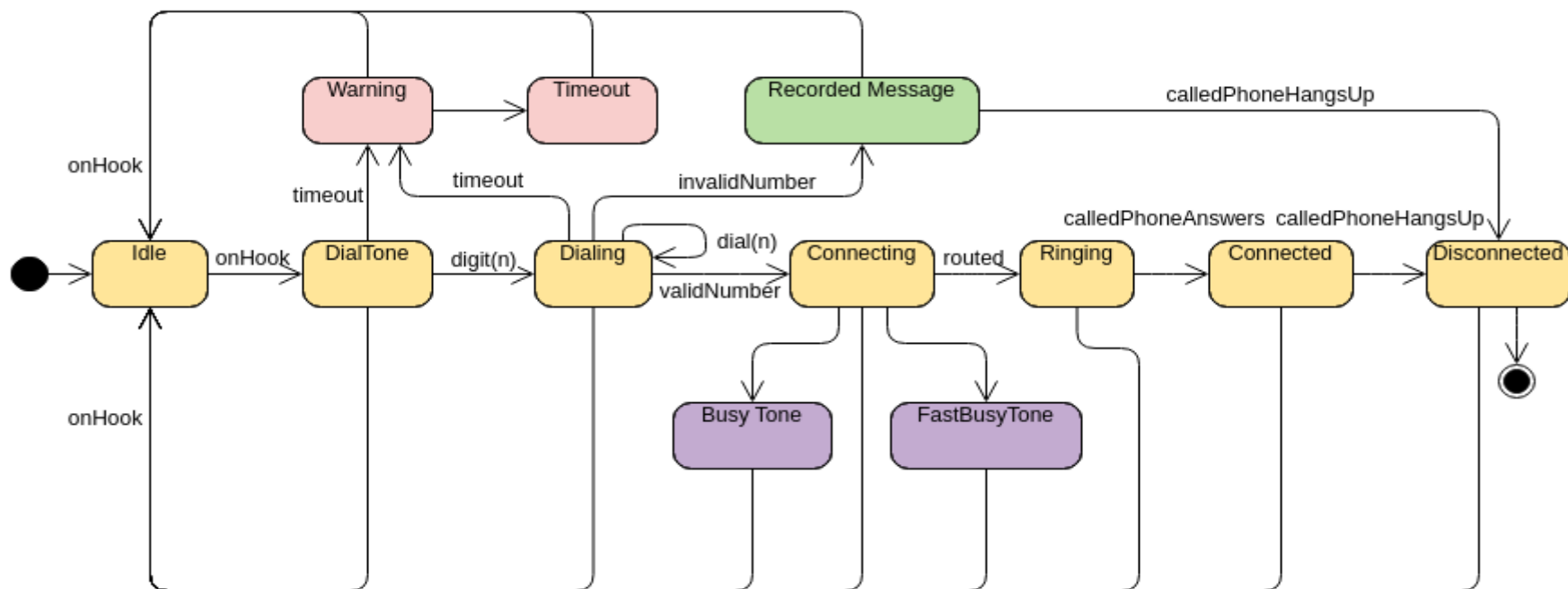

A state machine diagram for invoices

State Chart – Coffee Machine

Transition	Label
	return-coin
	Idle
	coin-x
	coin-5
	coin-10
	cupOfCoffee
	coffee
	Paid 5
	cupOfTea
	Paid 10
	tea
	coffee
	tea
	Make tea
	return-5
	Make coffee

State Chart – Phone

START

State Chart – ATM Withdrawal Transaction

Reading CARD

Read Card Successfully

Reading PIN ──────────────────────────────────── Invalid Card

Read PIN Successfully

Choosing
Transactions ──────────────────────────────────── Invalid PIN

Withdrawal Option selected

Reading
Withdraw Amt ──────────────────────────────────── Cancel Transaction

Read Withdraw Amt

Validating
Withdraw Amt

Successfully validated

Checking
Customer Balance ──────────────────────────────────── Invalid Withdraw Amount

Balance checked successfully

Dispense Cash

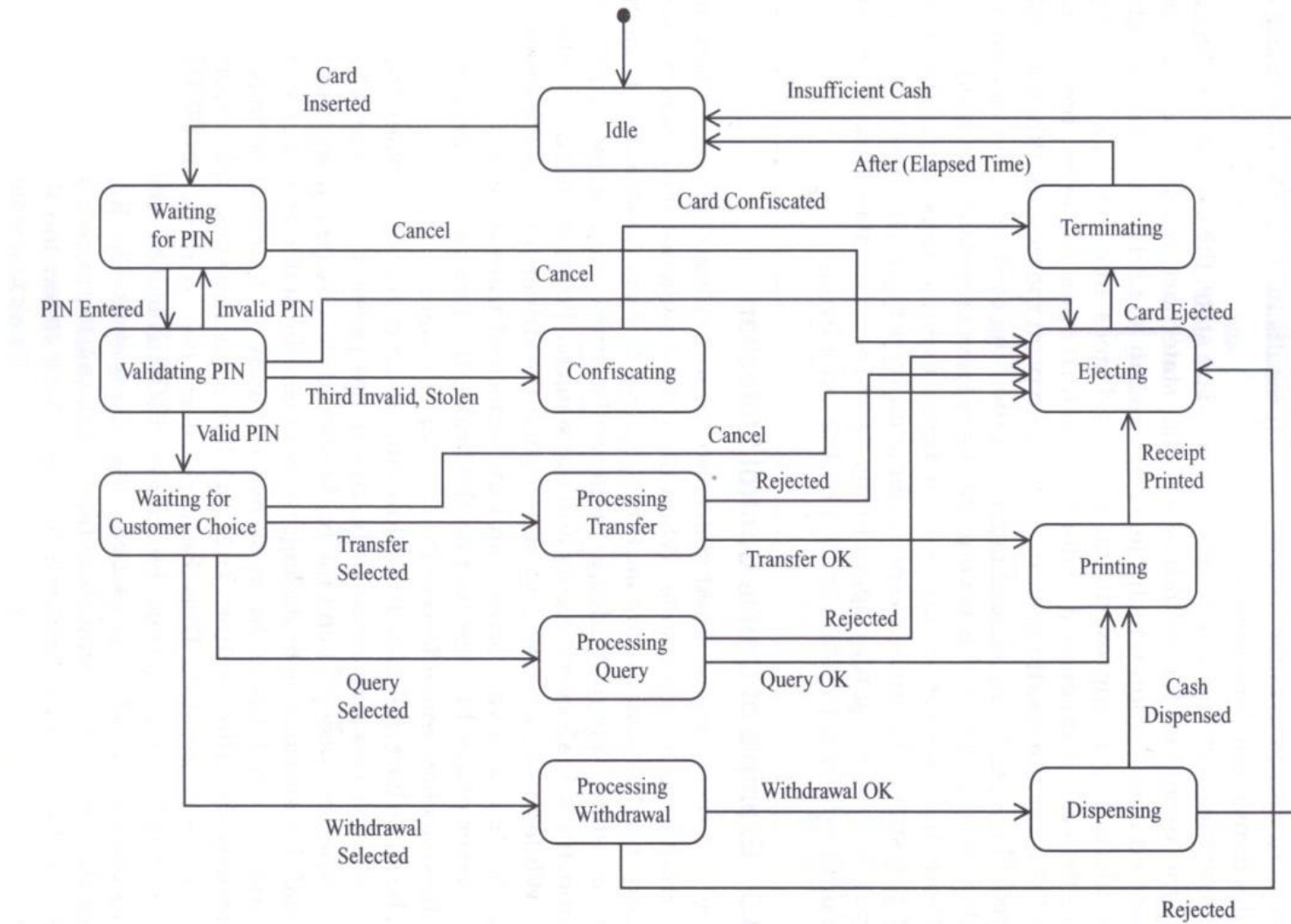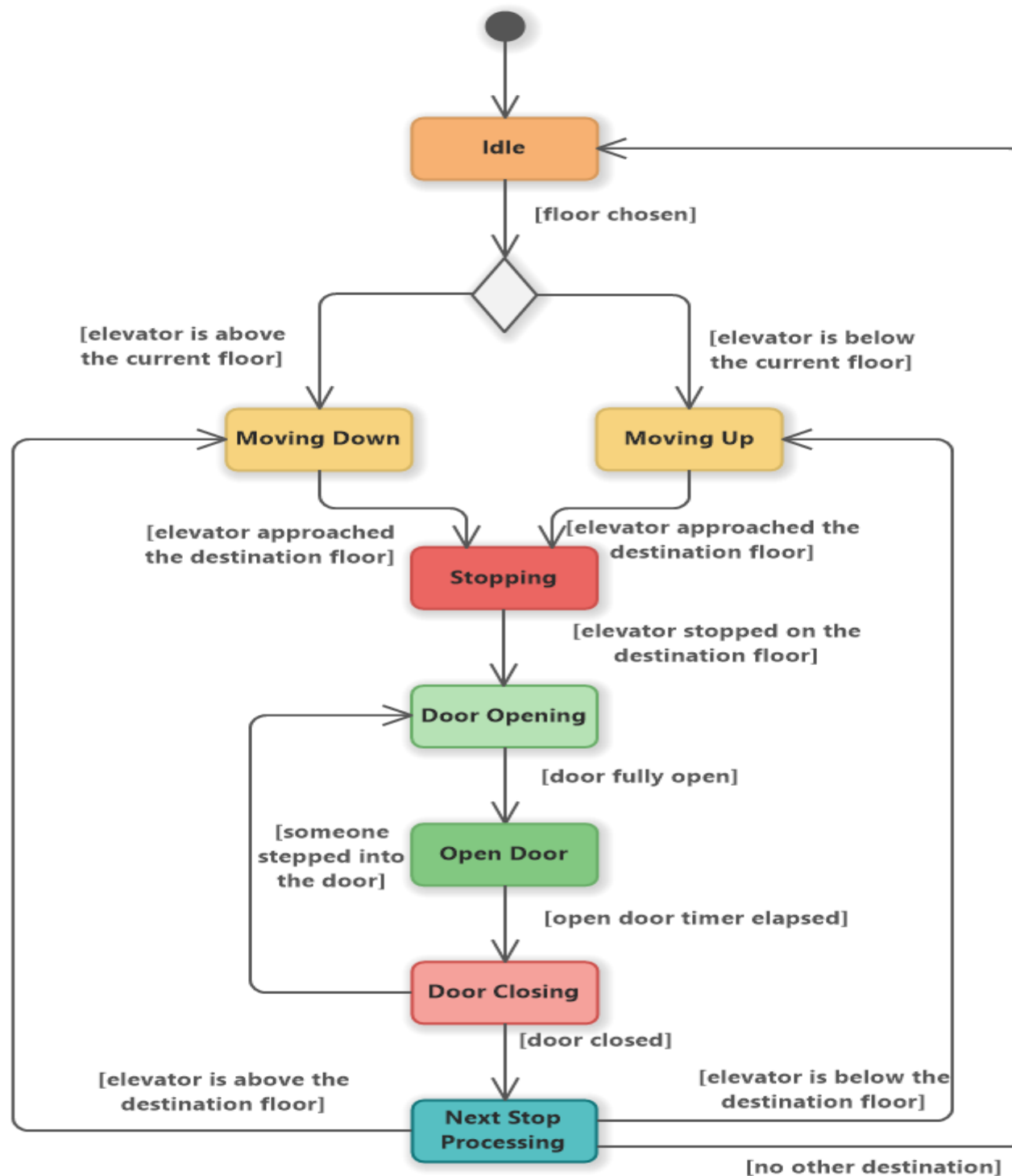Customer collected the cash

Returning Card

Customer taken the card

END

State Chart – ATM

Statechart diagram of an order management system