Name: matric no:

Saad Hafez Moulana 1414027

CONDE LANCINE 1729355

1. Vending Machine
2. The process of buying something from vending machine relate with state transition. Since it is a process that evolve through stages and it has some condition required to go to the next stage and it may also be required instead of going forward
3. State Transition Diagram

(true)

Insert money

(true)

No color

Money >=

Item

Price

(true)

Insufficient money

(false)

True False

Cancel

false

Cancel

false

Select

true

False

T,F

Money>Item price (true)

true

1. State Transition Table

|  |  |  |
| --- | --- | --- |
|  | True | False |
| Idle | Enter Coin | Reject |
| Enter Coin | Count Money | Reject |
| Count Money | Green Light | Enter Coin |
| Green Light | Select Item | Reject |
| Select Item | Dispose Item | Reject |
| Dispose Item | Balance | Idle |
| Balance | Idle | Idle |
| Reject | Reject | Reject |