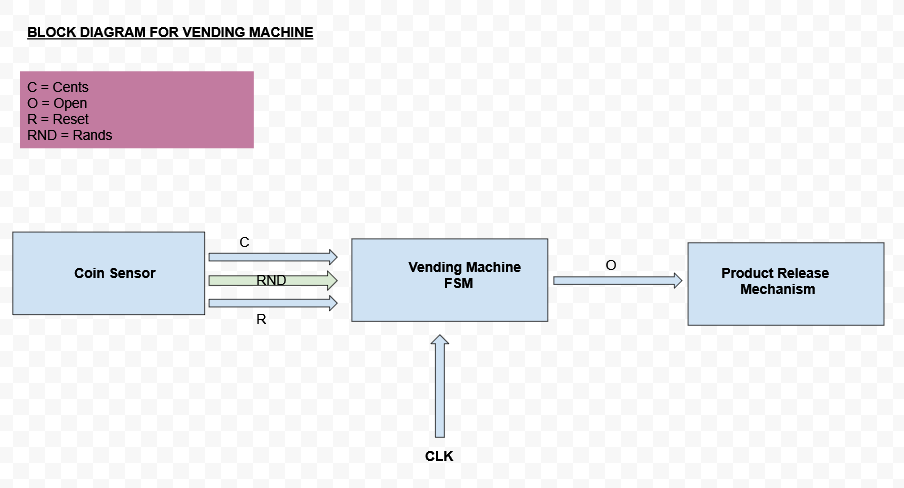
**Functions of Vending Machine**

* **Input**
* Coin Slot
* Selection Buttons
* **Process**
* Calculate change
* Release selected item
* Check availability of items
* **Memory**
* Items
* Coins
* Prices
* **Output**
* Delivery tray
* Change Slot

**Abstract Representations**

Given a choice of items with their prices:  
    (cola    8.50) = R5 + R2 + R1 + c50,  
    (orange 10.00) = R5 + R5  
    (sweets 12.50) = R5 + R5 + R2 + c50  
        (chocolate 15.00) = R5 + R5 + R5

* **Coke( 8,50)**
* R, R, R, C: Three rands in sequence followed by C.
* **Orange(10,00)**
* R, R: Two rands in sequence.
* **Sweets(12,50)**
* R, R, R, C: Three in sequence followed by C
* **Chocolate(15,00)**
* R, R, R: Three rands in sequence

****