Assumptions

* Each item has its own ID, which are scannable using barcode scanner
* Tax is 8.25% for every item
* The type of card (debit or credit), is determined by asking the customer
* Only $1, $5, $10, $20, $50, $100 bills are used
* Only pennies, nickels, dimes, and quarters are used
* Card numbers are always 16 digit
* PIN numbers are always 4 digit
* The 0’s at the beginning of the card numbers and pin numbers are omitted. For example, PIN number "0001" is represented as "1"
* Newly stocked items are already assigned an ID
* The 4 messages used to decline cards are: "insufficient funds", "bad PIN number", "card not recognized", and "deactivated cards"
* The authorized numbers are 8 digits.
* Credit and debit card expiration dates and security codes are sent along with their numbers
* Expired cards fall into the category of deactivated cards