## Presentaion Layer

bl:Business Layer
connected: boolean
choice: int
userName: String
password: String
main()

## Business Layer

dal: DAL
userName: String
password: String
output: ArrayList<String>
success: boolean
card: double
cash: double
revenue: double
total: double
amountSpent: double
calculated: boolean
checkConnection(String un, String pw): boolean
displayProducts(): void
updateProducts(String name, int stAmount, int shAmount): void
checkout(String[] items, int[] nl, String type): void
displayMoney(): void
getSpent(): void
largeOrder(String buyerName, String location, String phone, String email, String[] items, int[] quantities): void
restockLowShelfItems(int threshold): void
printData(ArrayList<String> output): void

## DAL

getMySQLConnection(String databaseName, String user, String password
ensureConnection(String databaseName, String user, String password)
displayProducts(String user, String password, ArrayList<String> output)
updateProducts(String user, String password, String name, int stAmount, int shAmount)
checkout(String user, String password, String[] items, int[] nl, double type, double revenue, ArrayList<double> temp, double total)
processLargeOrder(String user, String password, String buyerName, String location, String phone, String email, String[] items, int[] quantities, ArrayList<Double> temp)
getSpent(String user, String password)
restockProduct(String user, String password, String name, int quantity)
getPrice(String user, String password, String name)