### **Vending Machine Application**

The vending machine dispenses beverages, candy, chips, and gum.

Each vending machine item has a Name and a Price. As well as Qty Remaining.

A main menu must display when the software runs, presenting the following options:

- (1) Display Vending Machine Items
- (2) Purchase
- (3) Exit

```
1) Display Vending Machine Items
2) Purchase
3) Exit
Please choose an option >>> 1
Al|Potato Crisps| $3.05| Quantity Remaining: 5
A2|Stackers| $1.45| Quantity Remaining: 5
A3|Grain Waves| $2.75| Quantity Remaining: 5
A4|Cloud Popcorn| $3.65| Quantity Remaining: 5
B1|Moonpie| $1.80| Quantity Remaining: 5
B2|Cowtales| $1.50| Quantity Remaining: 5
B3|Wonka Bar| $1.50| Quantity Remaining: 5
B4|Crunchie| $1.75| Quantity Remaining: 5
C1|Cola| $1.25| Quantity Remaining: 5
C2|Dr. Salt| $1.50| Quantity Remaining: 5
C3|Mountain Melter| $1.50| Quantity Remaining: 5
C4|Heavy| $1.50| Quantity Remaining: 5
D1|U-Chews| $0.85| Quantity Remaining: 5
D2|Little League Chew| $0.95| Quantity Remaining: 5
D3|Chiclets| $0.75| Quantity Remaining: 5
D4|Triplemint| $0.75| Quantity Remaining: 5
1) Display Vending Machine Items
2) Purchase
3) Exit
Please choose an option >>>
```

The vending machine inventory is stocked via an input file when the vending machine starts.

- The vending machine is automatically restocked each time the application runs.
- When the customer selects "(1) Display Vending Machine Items", they're presented with a list of all items in the vending machine with its quantity remaining:
  - Each vending machine product has a slot identifier and a purchase price.
  - Each slot in the vending machine has enough room for 5 of that product.
  - A product that has run out will indicate that it is SOLD OUT.

#### When the customer selects

- "(2) Purchase", they are guided through the purchasing process menu:
- (1) Feed Money
- (2) Select Product
- (3) Finish Transaction

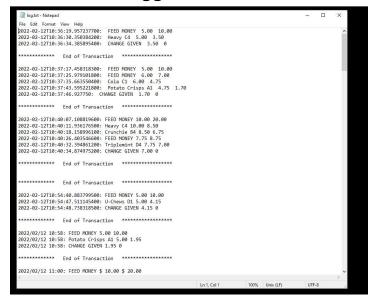
Customer must first "(1) Feed Money", selecting from \$1, \$5, and \$10

- "(2) Select Product" allows the customer to select a product to purchase.
  - Shows the list of products available and allows the customer to enter a code to select an item. (A1-D4)
  - If the product code does not exist, the customer is informed and returned to the Purchase menu.
  - o If a product is sold out, the customer is informed and returned to the Purchase menu.
  - o If a valid product is selected, it is dispensed to the customer.
  - Dispensing an item prints the item name, cost, and the money remaining. Dispensing also returns a message depending on item type, i.e. "Glug Glug".
  - After the product is dispensed, the machine must update its balance accordingly and return the customer to the Purchase menu.

#### Selecting

"(3) Finish Transaction" allows the customer to complete the transaction and provides change. Takes customers back to the Main Menu.

## **Transaction Logger**



### **Vending Machine Data File**

The input file that stocks the vending machine products is a pipe | delimited file. Each line is a separate product in the file and follows the below format:

Column Name	Description
Slot Location	The slot location in the vending machine where the product is set.
Product Name	The display name of the vending machine product.
Price	The purchase price for the product.
Туре	The product type for this row.

### For example:

A1|Potato Crisps|3.05|Chip B1|Moonpie|1.80|Candy B2|Cowtales|1.50|Candy C1|Cola|1.25|Drink

Vendingmachine.csv. Additional inventory files will be added to rotate in new items.

# **Sales Report**

The output sales report file is also pipe-delimited for consistency. And can be accessed with a secret key input of pressing 4 on the main menu. This will print out a txt file with Sales by Item.