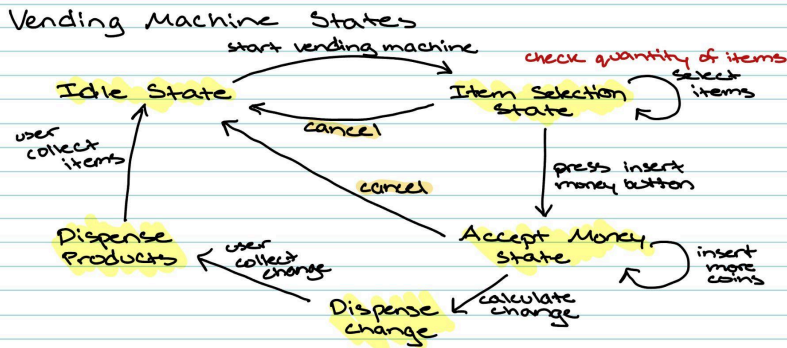


HW 8

GitHub Link: <https://github.com/mvernon-cpp/CS5800-HW8>

Printout of code is after screenshots.

STATE & CHAIN OF RESPONSIBILITY



```
"C:\Program Files\Java\jdk-18.0.2.1\bin\java.exe" "-javaagent:C:\
Creating Vending Machine
Vending Machine already in Idle State
Filling Vending Machine
1. [Coke $2.99 Remaining: 10]
2. [Pepsi $2.99 Remaining: 10]
3. [Cheetos $4.48 Remaining: 8]
4. [Doritos $3.98 Remaining: 12]
5. [KitKat $1.99 Remaining: 20]
6. [Snickers $2.29 Remaining: 10]
Changing state to Item Selection. User can now select snacks.
Select snack number (0 - exit, 7 - cancel selection):
6
Enter quantity:
21
Invalid quantity entered. Snack not added.
Select snack number (0 - exit, 7 - cancel selection):
6
Enter quantity:
20
Invalid quantity entered. Snack not added.
Select snack number (0 - exit, 7 - cancel selection):
6
Enter quantity:
10
Select snack number (0 - exit, 7 - cancel selection):
0
Exiting item selection...
User selected the following snacks:
```

Exiting item selection...

User selected the following snacks:

=====

Snickers: \$2.29 x 10

Changing state to Accept Money. User can now insert money.

Total: \$22.9

Enter inserted money: \$20

Are you finished entering money? (y/n/cancel)y

Insufficient funds. \$20.0

Enter inserted money: \$5

Are you finished entering money? (y/n/cancel)y

Changing state to Dispensing Change

User inserted \$25.0

Total price \$22.9

Change dispensed \$2.100000000000000014

Changing state to Dispensing Items

I was passed from Coke

I was passed from Pepsi

I was passed from Cheetos

I was passed from Doritos

I was passed from KitKat

Dispensing Snickers

I was passed from Coke

I was passed from Pepsi

I was passed from Cheetos

I was passed from Doritos

I was passed from KitKat

Dispensing Snickers

```
I was passed from Pepsi
I was passed from Cheetos
I was passed from Doritos
I was passed from KitKat
Dispensing Snickers
I was passed from Coke
I was passed from Pepsi
I was passed from Cheetos
I was passed from Doritos
I was passed from KitKat
Dispensing Snickers
I was passed from Coke
I was passed from Pepsi
I was passed from Cheetos
I was passed from Doritos
I was passed from KitKat
Dispensing Snickers
I was passed from Coke
I was passed from Pepsi
I was passed from Cheetos
I was passed from Doritos
I was passed from KitKat
Dispensing Snickers
```

I was passed from Pepsi

I was passed from Cheetos

I was passed from Doritos

I was passed from KitKat

Dispensing Snickers

I was passed from Coke

I was passed from Pepsi

I was passed from Cheetos

I was passed from Doritos

I was passed from KitKat

Dispensing Snickers

I was passed from Coke

I was passed from Pepsi

I was passed from Cheetos

I was passed from Doritos

I was passed from KitKat

Dispensing Snickers

Changing state to Idle

Vending Machine - Remaining snacks

1. [Coke \$2.99 Remaining: 10]

2. [Pepsi \$2.99 Remaining: 10]

3. [Cheetos \$4.48 Remaining: 8]

4. [Doritos \$3.98 Remaining: 12]

5. [KitKat \$1.99 Remaining: 20]

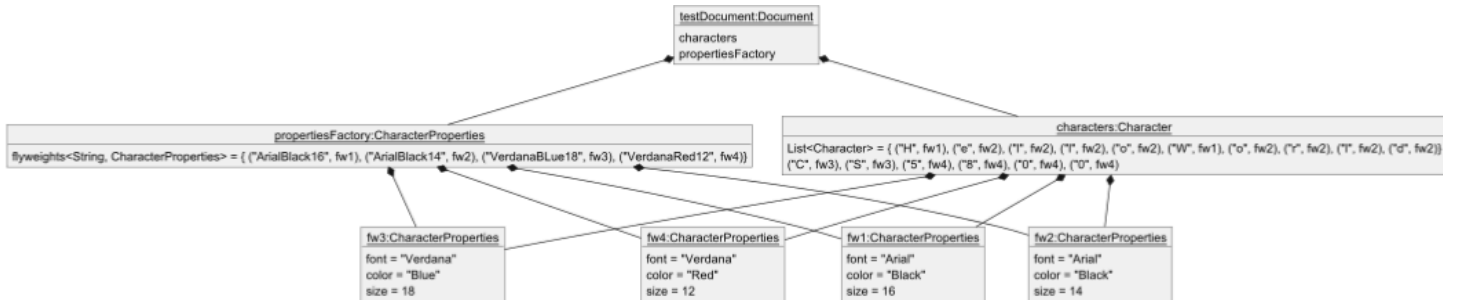
6. [Snickers \$2.29 Remaining: 0]

Process finished with exit code 0

UML



Question 1



Question 2

