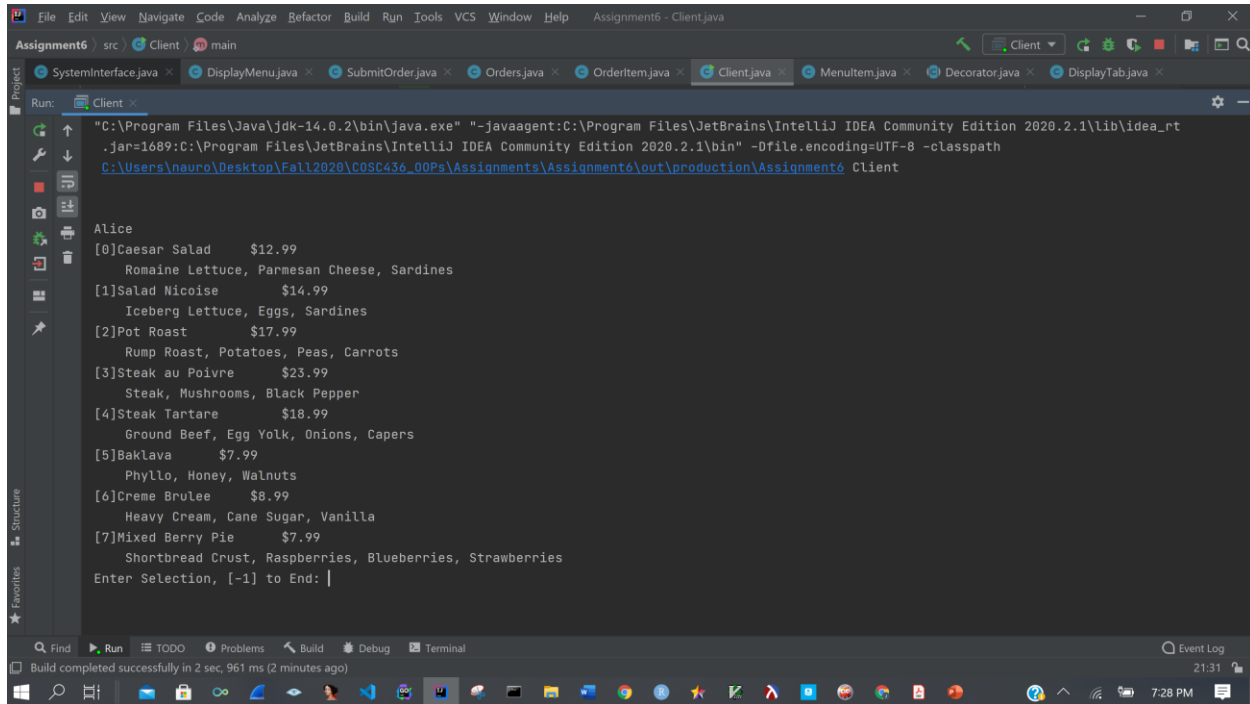


James Naurot

John Wangari

Alice, Bob, Carol, and Dan decide to visit their favorite restaurant – it's socially distanced having only one table. The menu is displayed for each customer.



```
Run: Client
"C:\Program Files\Java\jdk-14.0.2\bin\java.exe" "-javaagent:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.2.1\lib\idea_rt.jar=1689:C:\Program Files\JetBrains\IntelliJ IDEA Community Edition 2020.2.1\bin" -Dfile.encoding=UTF-8 -classpath C:\Users\nauro\Desktop\Fall2020\COSC436_00Pa\Assignments\Assignment6\out\production\Assignment6 Client

Alice
[0]Caesar Salad      $12.99
    Romaine Lettuce, Parmesan Cheese, Sardines
[1]Salad Nicoise     $14.99
    Iceberg Lettuce, Eggs, Sardines
[2]Pot Roast         $17.99
    Rump Roast, Potatoes, Peas, Carrots
[3]Steak au Poivre   $23.99
    Steak, Mushrooms, Black Pepper
[4]Steak Tartare     $18.99
    Ground Beef, Egg Yolk, Onions, Capers
[5]Baklava           $7.99
    Phyllo, Honey, Walnuts
[6]Creme Brulee      $8.99
    Heavy Cream, Cane Sugar, Vanilla
[7]Mixed Berry Pie   $7.99
    Shortbread Crust, Raspberries, Blueberries, Strawberries
Enter Selection, [-1] to End: |
```

To order type in the number next to the item. To end your order, and let the next person order, type a -1.

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Assignment6 - Client.java
Assignment6 src Client main
Run: Client
Alice
[0]Caesar Salad $12.99
    Romaine Lettuce, Parmesan Cheese, Sardines
[1]Salad Nicoise $14.99
    Iceberg Lettuce, Eggs, Sardines
[2]Pot Roast $17.99
    Rump Roast, Potatoes, Peas, Carrots
[3]Steak au Poivre $23.99
    Steak, Mushrooms, Black Pepper
[4]Steak Tartare $18.99
    Ground Beef, Egg Yolk, Onions, Capers
[5]Baklava $7.99
    Phyllo, Honey, Walnuts
[6]Creme Brulee $8.99
    Heavy Cream, Cane Sugar, Vanilla
[7]Mixed Berry Pie $7.99
    Shortbread Crust, Raspberries, Blueberries, Strawberries
Enter Selection, [-1] to End:
Enter Selection, [-1] to End:
Enter Selection, [-1] to End:
Enter Selection, [-1] to End:
Bob
Find Run TODO Problems Build Debug Terminal
Build completed successfully in 2 sec, 961 ms (4 minutes ago)
44:31
```

Next is Bob's turn

```
File Edit View Navigate Code Analyze Refactor Build Run Tools VCS Window Help Assignment6 - Client.java
Assignment6 src Client main
Run: Client
Bob
[0]Caesar Salad $12.99
    Romaine Lettuce, Parmesan Cheese, Sardines
[1]Salad Nicoise $14.99
    Iceberg Lettuce, Eggs, Sardines
[2]Pot Roast $17.99
    Rump Roast, Potatoes, Peas, Carrots
[3]Steak au Poivre $23.99
    Steak, Mushrooms, Black Pepper
[4]Steak Tartare $18.99
    Ground Beef, Egg Yolk, Onions, Capers
[5]Baklava $7.99
    Phyllo, Honey, Walnuts
[6]Creme Brulee $8.99
    Heavy Cream, Cane Sugar, Vanilla
[7]Mixed Berry Pie $7.99
    Shortbread Crust, Raspberries, Blueberries, Strawberries
Enter Selection, [-1] to End:
Enter Selection, [-1] to End:
Enter Selection, [-1] to End:
Enter Selection, [-1] to End:
Find Run TODO Problems Build Debug Terminal
Build completed successfully in 2 sec, 961 ms (5 minutes ago)
67:31
```

Carol's

The screenshot shows an IDE window titled "Assignment6 - Client.java". The "Run" console displays the output of a Java program. The program prompts the user to "Enter Selection, [-1] to End:". The user input is "Carol". The program then displays a menu of items with their prices and descriptions. The menu items are: [0] Caesar Salad (\$12.99), [1] Salad Nicoise (\$14.99), [2] Pot Roast (\$17.99), [3] Steak au Poivre (\$23.99), [4] Steak Tartare (\$18.99), [5] Baklava (\$7.99), [6] Creme Brulee (\$8.99), and [7] Mixed Berry Pie (\$7.99). The program then prompts the user to "Enter Selection, [-1] to End:" four times, and the user input is "Enter Selection, [-1] to End:" each time.

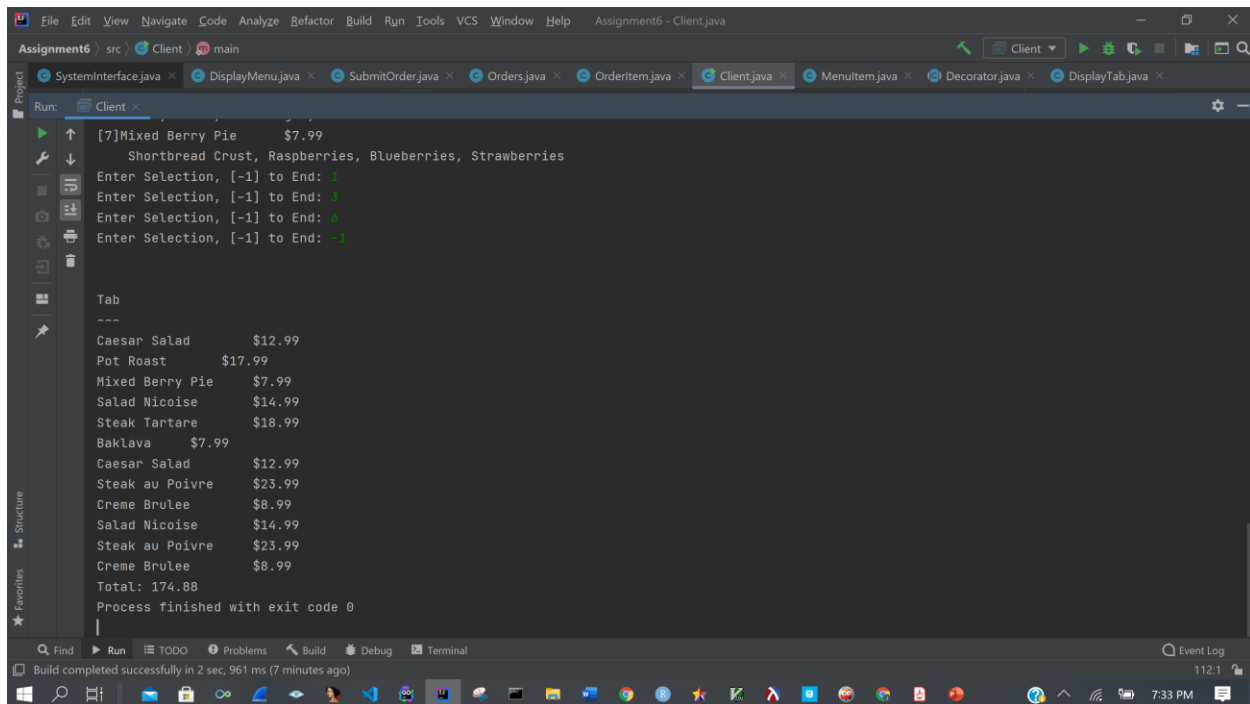
```
Enter Selection, [-1] to End: 
Carol
[0]Caesar Salad    $12.99
    Romaine Lettuce, Parmesan Cheese, Sardines
[1]Salad Nicoise   $14.99
    Iceberg Lettuce, Eggs, Sardines
[2]Pot Roast       $17.99
    Rump Roast, Potatoes, Peas, Carrots
[3]Steak au Poivre $23.99
    Steak, Mushrooms, Black Pepper
[4]Steak Tartare   $18.99
    Ground Beef, Egg Yolk, Onions, Capers
[5]Baklava         $7.99
    Phyllo, Honey, Walnuts
[6]Creme Brulee    $8.99
    Heavy Cream, Cane Sugar, Vanilla
[7]Mixed Berry Pie $7.99
    Shortbread Crust, Raspberries, Blueberries, Strawberries
Enter Selection, [-1] to End: 
Enter Selection, [-1] to End: 
Enter Selection, [-1] to End: 
Enter Selection, [-1] to End: 
```

And Dan's

The screenshot shows an IDE window titled "Assignment6 - Client.java". The "Run" console displays the output of a Java program. The program prompts the user to "Enter Selection, [-1] to End:". The user input is "Dan". The program then displays a menu of items with their prices and descriptions. The menu items are: [0] Caesar Salad (\$12.99), [1] Salad Nicoise (\$14.99), [2] Pot Roast (\$17.99), [3] Steak au Poivre (\$23.99), [4] Steak Tartare (\$18.99), [5] Baklava (\$7.99), [6] Creme Brulee (\$8.99), and [7] Mixed Berry Pie (\$7.99). The program then prompts the user to "Enter Selection, [-1] to End:" four times, and the user input is "Enter Selection, [-1] to End:" each time.

```
Enter Selection, [-1] to End: 
Dan
[0]Caesar Salad    $12.99
    Romaine Lettuce, Parmesan Cheese, Sardines
[1]Salad Nicoise   $14.99
    Iceberg Lettuce, Eggs, Sardines
[2]Pot Roast       $17.99
    Rump Roast, Potatoes, Peas, Carrots
[3]Steak au Poivre $23.99
    Steak, Mushrooms, Black Pepper
[4]Steak Tartare   $18.99
    Ground Beef, Egg Yolk, Onions, Capers
[5]Baklava         $7.99
    Phyllo, Honey, Walnuts
[6]Creme Brulee    $8.99
    Heavy Cream, Cane Sugar, Vanilla
[7]Mixed Berry Pie $7.99
    Shortbread Crust, Raspberries, Blueberries, Strawberries
Enter Selection, [-1] to End: 
Enter Selection, [-1] to End: 
Enter Selection, [-1] to End: 
Enter Selection, [-1] to End: 
```

Once everyone has ordered, a tab is created



```
Assignment6 - Client.java
Run: Client
[7]Mixed Berry Pie      $7.99
    Shortbread Crust, Raspberries, Blueberries, Strawberries
Enter Selection, [-1] to End: 1
Enter Selection, [-1] to End: 1
Enter Selection, [-1] to End: 1
Enter Selection, [-1] to End: -1

Tab
---
Caesar Salad      $12.99
Pot Roast         $17.99
Mixed Berry Pie   $7.99
Salad Nicoise     $14.99
Steak Tartare     $18.99
Baklava           $7.99
Caesar Salad      $12.99
Steak au Poivre   $23.99
Creme Brulee      $8.99
Salad Nicoise     $14.99
Steak au Poivre   $23.99
Creme Brulee      $8.99
Total: 174.88
Process finished with exit code 0
```

The two design patterns we chose were Singleton and Decorator. We both like the decorator design pattern as it extends (but not the inheritance sense of extends) the states an object can have without modifying the object itself. Decorator also gave a little bit more flavor to our menu – allowing us to more fully describe the dishes. We were considering which other design pattern to use when Singleton came up as a possible choice when generating the menu. Since we display a menu for each customer, we decided to reuse the old menu rather than create a new menu each time. Not exactly in line with the current restrictions, but the waiter assured us she would wipe the menu down in between customers.