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The program created is to display and take an individual's order at a cafe. In the program, it will display the options where you can start your order, and select what you would like and their quantity. At the end of each selection it will give you your total amount calculating the quantity of item you would like to order multiplied by the price. It is functional but has many weaknesses that can be improved on. The strong suit I'd like to say is the switch cases as they are technically nested. From the main option menu you can select what you would like to do, or exit. By selecting "Place Order" it will display the item menu and there prices where the the second set of switch cases are implemented. The weakness of this project varies from the use of arrays and the functionality as I believe they can be improved upon. In this project I simply took the array elements and assigned it a string. The functionality itself in this project was disappointing as there were more services I would've liked to introduce such as viewing their order. The code could have been organized better as well, and the use of classes and references should have been used more often. In the future, I would like to reference this project and improve upon the topics that were used to better implement the functionality of this program, specifically the use of arrays, constructors, and the use of inheritance.

Pseudo code:

Class FinalCafe extends the class displays:

Method orderSystem():

START: Import the scanner class

INITIALIZE Variables for the prices of different items and the array to store the food item names

coffee = 4.90, espresso = 1.75, latte = 6.50, tea = 3.15, dessert = 3.75, total = 0

foodName = Coffee, Espresso, Latte, Tea, Dessert

PRINT ("Enter option Number")

INPUT userChoice

IF (choice is greater than 1 and less than 4) **THEN**

PRINT ("Invalid Selection")

IF userchoice equals 1

DISPLAY displayMenu method

PRINT Enter the users choice

INPUT the user choice 1 through 4

WHILE (true)

IF user **INPUTS** 1

PRINT "You have selected coffee"

PRINT Enter desired quantity

INPUT quantity number

COMPUTE get total = total + amount of quantity user wants * the coffee price

IF user **INPUTS** 2

PRINT "You have selected espresso"

PRINT Enter desired quantity

INPUT quantity number

COMPUTE get total = total + amount of quantity user wants * the espresso price

IF user **INPUTS** 3

PRINT "You have selected latte"

PRINT Enter desired quantity

INPUT quantity number

COMPUTE get total = total + amount of quantity user wants * the latte price

IF user **INPUTS** 4

PRINT "You have selected tea

PRINT Enter desired quantity

INPUT quantity number

COMPUTE get total = total + amount of quantity user wants * the tea price

IF user **INPUTS** 5

PRINT "You have selected dessert"

PRINT Enter desired quantity

INPUT quantity number

COMPUTE get total = total + amount of quantity user wants * the dessert price

IF user **INPUTS** 6

EXIT System

ENDWHILE

main method:

COMPUTE displayOptions method

COMPUTE orderSystem method

PRINT Would you like to order anything else

IF user answers yes **THEN**

COMPUTE display method

COMPUTE orderSystem method

ELSE user answers no **THEN**

system exit

ELSE

PRINT Invalid Choice