**Chapter: Midterm?**

**Assignment: Pasta Fresh**

**Name: Ricky Howe**

**PROGRAM DESCRIPTION:**

**“Pasta Boss ordering app” Vers. 1.0**

This program is called Pasta Boss. The program is ready for Beta testing.

This program is designed to enhance the dining experience of the customers of Pasta Fresh. The app will display our four most popular menu items along with their price. The app will calculate tax, and the final cost including any optional tips. If the diner spends more than $8, they will receive a $1 off coupon, if they spend less than $8, the coupon will be for $.50.

**INPUT**: I will ask the diner to input their first name for personalization purposes, and ask them to choose a menu item from a list.

The menu:

This list will be created using case statements, and the command “BREAK”. This command is included to break out of the cases, and if it is not included at the end of each case, all subsequent cases will be executed until End Case. Once a match is found, a break will be executed and the rest of the cases will be skipped.

I will use the menu included in the assignment as a template for the in app menu.

|  |  |
| --- | --- |
| Food Item | Price |
| Spaghetti & Meatballs entrée | $5.99 |
| Chicken Alfredo entrée | $6.99 |
| Chicken Parmesan with Tomato Basil Pasta entrée | $8.99 |
| Cauliflower Veggie Delight Pizza with Cheese”Bread” entrée | $8.49 |

**PROCESS/ASSIGNMENT STATEMENTS**:

Here, I will be using a compound condition. It is highly likely that the AND logical operator will come into play. I may end up needing to utilize nested IF’s as well.

These are the variables I foresee using so far:

Declare UserName as string

Declare Tip , SubTotal , Price , Discount , FinalCost as float

Set SubTotal = (Price \* .07) + Price

Set FinalCost = SubTotal + Tip

The decision structure should look something like this:

Select Case of Entree

Case 0

Write “Please come again soon. Goodbye.”

End Main Program

Break

//

Case 1

Write “You selected Spaghetti & Meatballs.”

Set Price = $5.99

Set SubTotal = (Price \* .07) + Price

Break

//

Case 2

Write “You selected Chicken Alfredo.”

Set Price = $6.99

Set SubTotal = (Price \* .07) + Price

Break

//

Case 3

Write “You selected Chicken Parmesan with Tomato Basil pasta.”

Set Price = $8.99

Set SubTotal = (Price \* .07) + Price

Break

//

Case 4

Write “You selected Cauliflower Veggie Delight Pizza w/ Cheese “Bread”.”

Set Price = $8.49

Set SubTotal = (Price \* .07) + Price

Break

//

End Case

//

Write “Thank you, “ + UserName + “, your current total with tax calculated is Write “ + SubTotal + “. Would you like to leave a tip?”

//

Write “Yes. . . . . . . . . . . . . Press 0”

Write “No . . . . . . . . . . . . . Press 1”

//

Select Case of Choice

Case 0:

Write “Thank you! Your gratitude is very much appreciated! Please enter your” Write “tip amount.”

Input Tip

Set FinalCost = SubTotal + Tip

Break

//

Case 1:

Write “We appreciate your business!”

Break

End Case

**OUTPUT**:

“Thank you for downloading Pasta Boss, our app-based ordering software.”

“Please tell us your first name.”

“Thank you “ + UserName + “, please select one of the following entrees.”

1. Pasta Fresh “Pasta Boss” ordering system
2. \*we are a gluten free establishment\*
3. Leave the program. . . . . . . . . . . .Press 0
4. Spaghetti & Meatballs. . . . $5.99 . . . . . Press 1
5. Chicken Alfredo . . . . $6.99 . . . . . . . . . . .Press 2
6. Chicken Parmesan with
7. Tomato Basil pasta. . . . $8.99 . . . . . . . . Press 3
8. Cauliflower Veggie Delight Pizza
9. With Cheese “Bread”. . . . . $8.49 . . . . . .Press 4

Write “Thank you, “ + UserName + “, your current total with tax calculated is Write “ + SubTotal + “. Would you like to leave a tip?”

//

Write “Yes. . . . . . . . . . . . . Press 0”

Write “No . . . . . . . . . . . . . Press 1”

//Selecting the user’s cost tier to calculate discount

If Price > $8.00 Then

Set Discount = $1.00

If Price < $8.00 Then

Set Discount = $.50

End If

End If

Set FinalCost = Price + Tip

**The last screen :**

This is where we explain the bill to our user, and thank them for choosing Pasta Fresh.

This is the last screen the user will see before the app closes, so it is very important that we leave the user feeling appreciated and important. Earlier in the app, the user’s eligibility for a discount on their next meal was calculated, and this screen is where we tell the user that they earned a reward.

Write “” + UserName + “, your total cost, including tips and tax will be

““ + FinalCost + “.”

Write “”

Write “ + UserName + “, please check your receipt, you have earned a reward! You have

Write “earned “ + Discount + “ off of your next purchase!”

Write “Thank you for dining at Pasta Fresh, we hope to see you again soon!”