

Algorithm for PAU Cafe System

Start

- First of all I import Tkinter GUI and other neccesary modules needed to execute the program.
- Setup the main GUI window. i.e background color, size and title.
- I create a function that calculates charges based on what the user chose to buy from the catalogue.
- If the total order is less than N2,500 the customer gets a 10% discount.
- If the total order is greater than N2,500 and less than N5,000 the customer gets a 15%

discount.

- If the order is greater than N5,000 the customer gets a 25% discount.
- Else if the order is less than N1,000 the customer gets no discount.
- I design a User freindly GUI using Tkinter (as I should've imported by then).
- I add a dropdown menu using ttk(tkinter themed widgets) and I make it read only so users can't type on it causing bad UX and avoidable errors.
- I create a function that takes values from the dropdown to the order dictionary.
- I create a submit button function that has the order dictionary.
- Ask the user for their name.

- When they provide their name, run the important part of the code.
- All calculations begin after user clicks submit as to not overwhelm the user.
- The price the user gets to play will be displayed in a new window as stated in the assignment.

End

Design Choices and reason.

- For the colours. From my knowledge in UI design. I believe that choosing colors that are too much in contrast will be a bad idea because it unconsciously strains the user's eyes. So I chose colors that give a sense of warmth.

Catalogue

Rice / Pasta	Protein	Side Dishes
<input type="button" value="▼"/> 1	<input type="button" value="▼"/> 1	<input type="button" value="▼"/> 1
Beverages	Soups & Swallows	
<input type="button" value="▼"/> 1	<input type="button" value="▼"/> 1	
<input type="button" value="Show Menu image"/>		
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<input type="button" value="Submit"/>		

- For the font I chose a sans-serif font for a friendlier look.

```
font = ("Segoe UI", 12),
```

- I implemented a drop down menu because if this was an actual solution, it will probably work on a touchscreen and we shouldn't stress the user by triggering an onscreen keyboard.

