Assignment PF:

Expected time 30 minutes:

Your program should display the names of dishes along with their corresponding codes, allowing the user to select a dish using its code. [ do while ]

After the user selects a dish, the program should ask whether they want to purchase more items. If the user chooses "yes," they should be directed to select the quantity; otherwise, the menu is repeated for the next purchase.

[while condition]

If the user enters an invalid code, an error message is displayed, and the menu is shown again until a valid option is selected. [ do while condition ]

Upon selecting a dish, the program should prompt the user to enter the quantity they wish to purchase in kilograms, ensuring that the quantity entered is greater than 0. If an invalid quantity is entered, the program should display an error message and prompt the user again until a valid value is provided. [if / while loop]

The program should inquire about the currency in which the user wishes to make payment. For this assignment, three currencies are available: Pakistani rupee (1), euro (2), and dollar (3). If the user enters an invalid option, an error message should be displayed, and the user should be prompted to enter a valid value. [switch]

The program will calculate the meal price, sales tax on the meal price, and the total price of the meal. Sales tax will be computed based on the meal price in Pakistani rupees, which is hard-coded, and the corresponding tax rate as per the given table. [statement]

**Hint:** Calculate the total amount in Pakistani rupees based on meal price and sales tax. Convert the total amount

into the desired currency according to the user's choice. Display the final meal price in rupees for the Rupees option.

For Dollar or Euro options, convert the meal price from rupees to the selected currency using the appropriate

exchange rate. Additionally, show the sales tax amount and the meal price excluding sales tax.

1 switch

1 while

1 do while