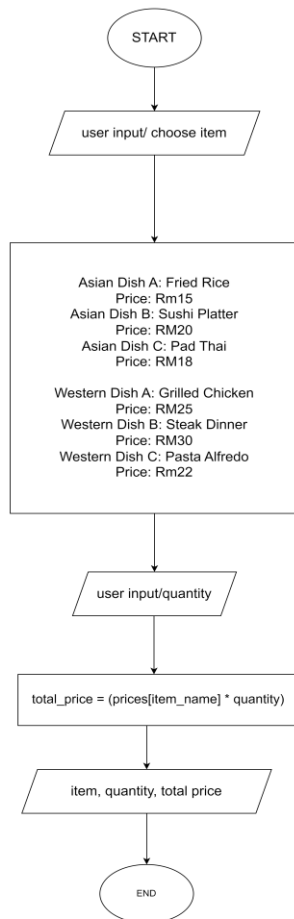


INTRODUCTION

In this assignment I explained how to order menu from restaurant.



PYTHON CODE

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File Edit Selection View Go Run Terminal Help
Untitled (Workspace)

C:\Users\Mani Shari\Documents> ML 208 > MENU_DATABASE.py > ...

24 # Main window
25 root = tk.Tk()
26 root.title("Restaurant Menu")
27 root.geometry("1000x800")

28 # Page Title
29 label = tk.Label(root, text="Place Your Order", font=("Broadway", 24, "bold"))
30 label.pack(ipadx=10, ipady=10)

31 # Menu List by using text box
32 menu_text = tk.Text(root, height=25, width=45)
33 menu_text.pack(pady=20)

34 # The derived list by using menu_text
35 menu_text.insert(tk.END, "Menu & Prices:\n")
36 menu_text.insert(tk.END, "Asian Dish A: Fried Rice \nPrice: RM25\n")
37 menu_text.insert(tk.END, "Asian Dish B: Sushi Platter \nPrice: RM28\n")
38 menu_text.insert(tk.END, "Asian Dish C: Pad Thai \nPrice: RM25\n")
39
40 menu_text.insert(tk.END, "Western Dish A: Grilled Chicken \nPrice: RM25\n")
41 menu_text.insert(tk.END, "Western Dish B: Steak Dinner \nPrice: RM30\n")
42 menu_text.insert(tk.END, "Western Dish C: Pasta Alfredo \nPrice: RM22\n")
43 menu_text.config(state="disabled")

44 # Item Dropdown (Label)
45 item_label = tk.Label(root, text="Choose Your Item")
46 item_label.pack()

47 # Item Dropdown
48 menu_var = tk.StringVar(root)
49 menu_var.set("Select Your Item")
50 item_dropdown = tk.OptionMenu(root, menu_var, "Asian Dish A", "Asian Dish B", "Asian Dish C", "Western Dish A", "Western Dish B", "Western Dish C")
51 item_dropdown.pack(pady=10)

52 # Quantity Entry. Label and user can insert data through entry
53 quantity_label = tk.Label(root, text="Quantity:")
54 quantity_label.pack()
55 quantity_entry = tk.Entry(root)
56 quantity_entry.pack()

57 # Place Order Button
58 order_button = tk.Button(root, text="Place Order", command=place_order)
59 order_button.pack(pady=10)

60 # Output Label & result
61 label = tk.Label(root, text="Order Details", font=("Arial Rounded MT Bold", 14))
62 label.pack(ipadx=10, ipady=10)
63 output_label = tk.Label(root, text="")
64 output_label.pack()

65 root.mainloop()

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File Edit Selection View Go Run Terminal Help
Untitled (Workspace)

C:\Users\Mani Shari\Documents> ML 208 > MENU_DATABASE.py > ...

1 import tkinter as tk
2 import mysql.connector
3
4 # Connect to your MySQL database
5 mydb = mysql.connector.connect(
6     host="localhost",
7     user="root",
8     password="",
9     database="restaurant_menu"
10 )
11
12 # Create a cursor object to execute SQL queries
13 mycursor = mydb.cursor()
14
15 # Function to handle the order calculation and database saving
16 def place_order():
17     item_name = menu_var.get()
18     quantity = int(quantity_entry.get())
19
20     # Prices for Asian Items
21     asian_prices = {
22         "Asian Dish A": 15,
23         "Asian Dish B": 20,
24         "Asian Dish C": 18,
25     }
26
27     # Prices for Western Items
28     western_prices = {
29         "Western Dish A": 25,
30         "Western Dish B": 30,
31         "Western Dish C": 22,
32     }
33
34     if "Asian" in item_name:
35         prices = asian_prices
36     else:
37         prices = western_prices
38
39     # Calculate the total price
40     total_price = prices[item_name] * quantity
41
42     # Insert order into the database
43     sql = "INSERT INTO orders (item_name, quantity, total_price) VALUES (%s, %s, %s)"
44     val = (item_name, quantity, total_price)
45     mycursor.execute(sql, val)
46     mydb.commit()
47
48     # Print back the order details
49     output_label.config(text=f"Item: {item_name}, Quantity: {quantity}, Total Price: RM{total_price}")
50
51 # Main window
52 root = tk.Tk()
53 root.title("Restaurant Menu")
54 root.geometry("1000x800")
55
56 # Show Title
```

DATABASE

The screenshot shows the phpMyAdmin interface for a database named 'restaurant_menu'. The 'Table structure' tab is selected for the 'orders' table. The table has three columns: 'Item_Name' (varchar(100)), 'Quantity' (varchar(10)), and 'Total_Price' (varchar(100)). All columns are using the 'utf8mb4_general_ci' collation. The 'Attributes' column is empty for all three. The 'Null' column is 'No' for all three. The 'Default' column is 'None' for all three. The 'Comments' column is empty for all three. The 'Extra' column is empty for all three. The 'Action' column contains links for 'Change', 'Drop', and 'More' for each column. Below the table structure, there are sections for 'Indexes' and 'Partitions', both showing 'No index defined!' and 'No partitioning defined!' respectively. The 'Indexes' section has a 'Create an index on' button. The 'Partitions' section has a 'Partition table' button. The left sidebar shows a list of databases and tables, including 'help_keyword', 'help_relation', 'help_topic', 'index_stats', 'innodb_index_stats', 'innodb_table_stats', 'plugin', 'proc', 'procs_priv', 'proxies_priv', 'roles_mapping', 'servers', 'slow_log', 'tables_priv', 'table_stats', 'time_zone', 'time_zone_leap_second', 'time_zone_name', 'time_zone_transition', 'time_zone_transition_time', 'transaction_registry', 'Views', 'performance_schema', 'phpmyadmin', and 'restaurant_menu'.

#	Name	Type	Collation	Attributes	Null	Default	Comments	Extra	Action
1	Item_Name	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More
2	Quantity	varchar(10)	utf8mb4_general_ci		No	None			Change Drop More
3	Total_Price	varchar(100)	utf8mb4_general_ci		No	None			Change Drop More

The screenshot shows the phpMyAdmin interface for the 'orders' table. The 'SQL' tab is selected, and a query has been executed: 'SELECT * FROM "orders"'. The query results are displayed in a table with three columns: 'Item_Name', 'Quantity', and 'Total_Price'. The results show 8 rows of data. The 'Query results operations' section at the bottom contains links for 'Print', 'Copy to clipboard', 'Export', 'Display chart', and 'Create view'. The left sidebar shows a list of databases and tables, including 'help_keyword', 'help_relation', 'help_topic', 'index_stats', 'innodb_index_stats', 'innodb_table_stats', 'plugin', 'proc', 'procs_priv', 'proxies_priv', 'roles_mapping', 'servers', 'slow_log', 'tables_priv', 'table_stats', 'time_zone', 'time_zone_leap_second', 'time_zone_name', 'time_zone_transition', 'time_zone_transition_time', 'transaction_registry', 'Views', 'performance_schema', 'phpmyadmin', and 'restaurant_menu'.

Showing rows 0 - 7 (8 total, Query took 0.0002 seconds)

SELECT * FROM "orders"

Item_Name	Quantity	Total_Price
Asian Dish B	3	60
Asian Dish C	3	54
Western Dish B	4	120
Western Dish C	5	110
Asian Dish A	4	60
Western Dish A	8	200
Asian Dish C	4	72
Asian Dish C	9	162