

```
import tkinter as tk  
from tkinter import messagebox  
import sqlite3  
from datetime import datetime  
  
# Connect to SQLite database  
conn = sqlite3.connect("cafe.db")  
cursor = conn.cursor()  
  
# Create table if it doesn't exist  
cursor.execute("""  
CREATE TABLE IF NOT EXISTS orders (  
    id INTEGER PRIMARY KEY  
AUTOINCREMENT,  
    item TEXT,  
    quantity INTEGER,  
    total_price REAL,  
    order_time TEXT  
)  
""")
```

```
conn.commit()
```

```
# Menu items with prices
```

```
menu = {  
    "coffee": 50,  
    "Tea": 30,  
    "Sandwich": 80,  
    "Burger": 100,  
    "Pastry": 60  
}
```

```
# Create main application window
```

```
root = tk.Tk()  
root.title("Cafe Management System")  
root.geometry("500x600")
```

```
# Store quantity input widgets
```

```
qty_vars = {}
```

```
def calculate_bill():
```

**total = 0**

**order\_summary = ""**

**for item, price in menu.items():**

**qty = qty\_vars[item].get()**

**if qty.isdigit() and int(qty) > 0:**

**item\_total = int(qty) \* price**

**total += item\_total**

**order\_summary += f'{item} x {qty} =  
₹{item\_total}\n'**

**# Store in database**

**cursor.execute("INSERT INTO orders  
(item, quantity, total\_price, order\_time)  
VALUES (?, ?, ?, ?)",**

**(item, int(qty), item\_total,  
datetime.now().strftime("%Y-%m-%d  
%H:%M:%S")))**

**conn.commit()**

**if total == 0:**

```
messagebox.showwarning("No Order",  
"Please select at least one item.")
```

```
return
```

```
tax = total * 0.05
```

```
grand_total = total + tax
```

```
order_summary += f"\nSubtotal:  
₹{total:.2f}\nTax (5%): ₹{tax:.2f}\nTotal:  
₹{grand_total:.2f}"
```

```
messagebox.showinfo("Bill",  
order_summary)
```

```
def clear_fields():  
    for var in qty_vars.values():  
        var.set("0")
```

```
# UI Layout
```

```
tk.Label(root, text="Cafe Menu",  
font=("Helvetica", 16, "bold")).pack(pady=10)
```

```
menu_frame = tk.Frame(root)
```

```
menu_frame.pack(pady=10)
```

```
# Generate menu rows
```

```
for i, (item, price) in  
enumerate(menu.items()):
```

```
    tk.Label(menu_frame, text=f"{item}  
(₹{price})", font=("Helvetica", 12)).grid(row=i,  
column=0, padx=10, pady=5, sticky='w')
```

```
    qty_var = tk.StringVar(value="0")
```

```
    qty_vars[item] = qty_var
```

```
    tk.Entry(menu_frame, textvariable=qty_var,  
width=5).grid(row=i, column=1)
```

```
# Buttons
```

```
tk.Button(root, text="Calculate Bill",  
command=calculate_bill, bg="green",  
fg="white", font=("Helvetica",  
12)).pack(pady=10)
```

```
tk.Button(root, text="Clear",  
command=clear_fields, bg="orange",
```

```
fg="white", font=("Helvetica",  
12)).pack(pady=5)
```

```
tk.Button(root, text="Exit",  
command=root.destroy, bg="red", fg="white",  
font=("Helvetica", 12)).pack(pady=10)
```

```
root.mainloop()
```