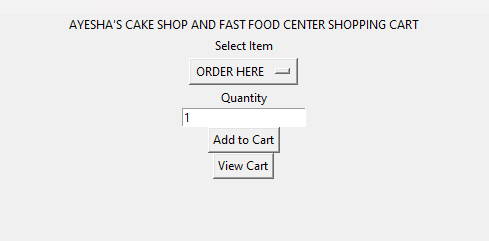
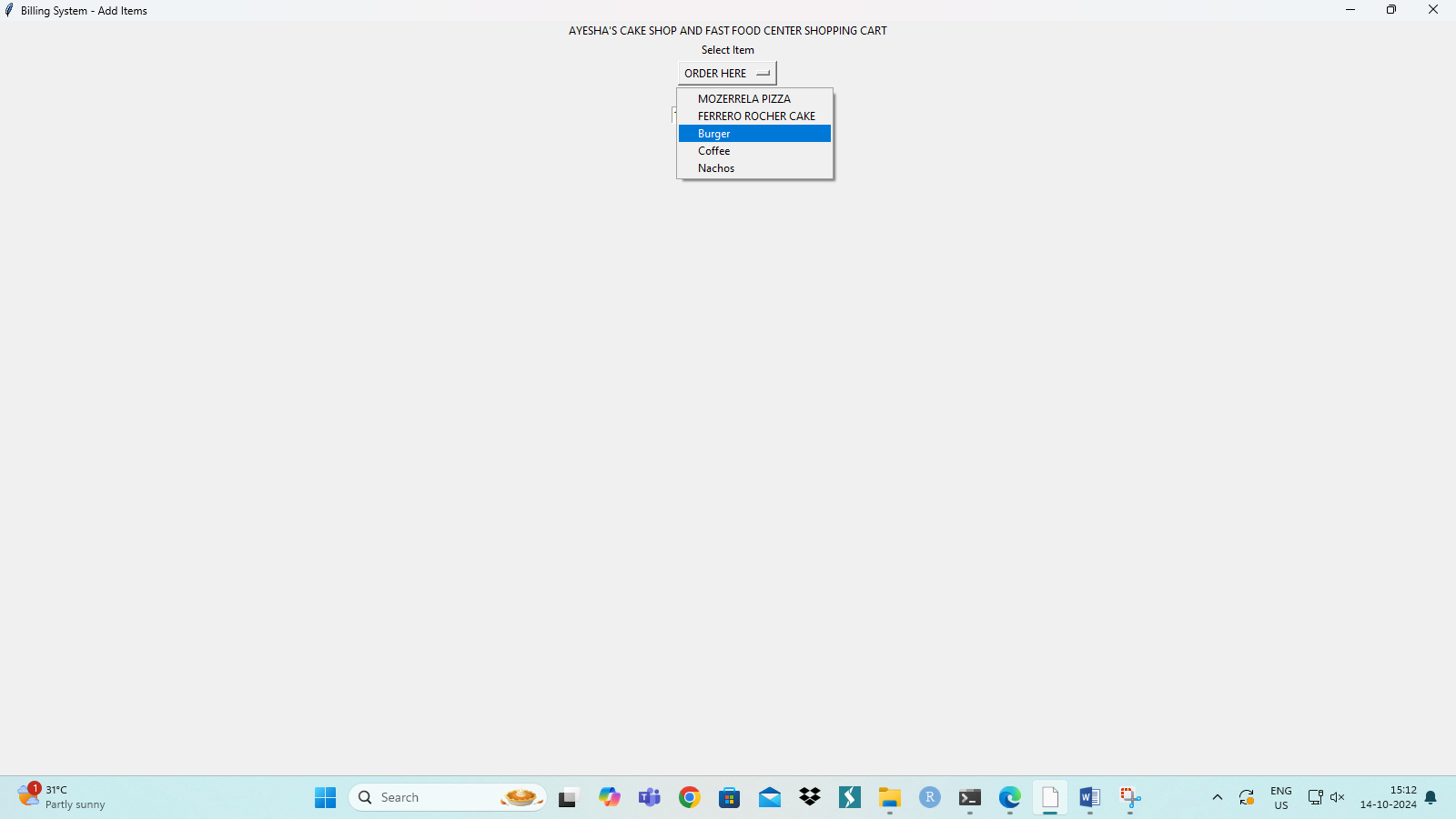
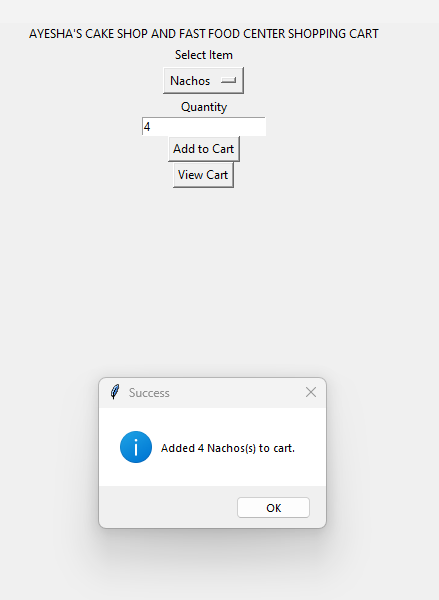
**AYESHA MUKATI 24MBD017 BIG DATA ASSIGNMENT**

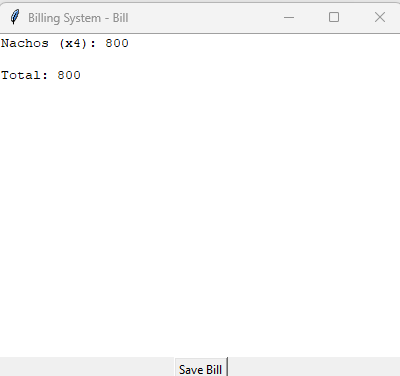
**Aim: Creating a Billing Software using Python and MongoDB.**

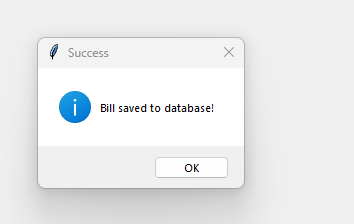
**Output:**

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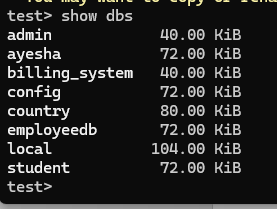
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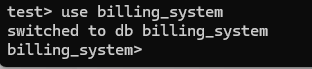
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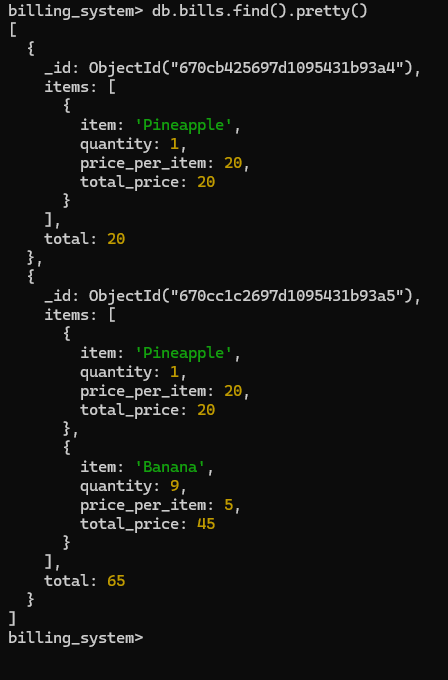
**Database Output Screenshots:**

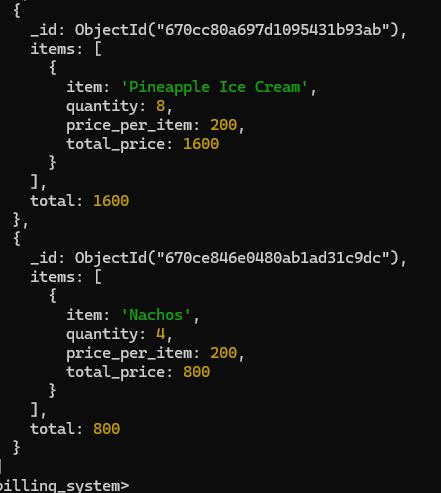
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**CODE:**

pip install pymongo tkinter

import tkinter as tk

from tkinter import messagebox

from pymongo import MongoClient

from bson.objectid import ObjectId

# MongoDB setup

client = MongoClient('mongodb://localhost:27017/')

db = client['billing\_system']

items\_collection = db['items']

bills\_collection = db['bills']

# Item list with prices

items = {

"Apple Milkshake": 100,

"Banana Pudding": 50,

"Orange Juice": 70,

"Mango Creame": 150,

"Pineapple Ice Cream": 200

}

# First form: Add items to cart

class AddItemsForm:

def \_\_init\_\_(self, root):

self.root = root

self.cart = []

self.total = 0

self.root.title("Billing System - Add Items")

self.label = tk.Label(root, text="AYESHA'S FRUIT JUICE CENTER SHOPPING CART")

self.label.pack()

self.label = tk.Label(root, text="Select Item")

self.label.pack()

self.item\_var = tk.StringVar(root)

self.item\_var.set("Apple") # default value

self.dropdown = tk.OptionMenu(root, self.item\_var, \*items.keys())

self.dropdown.pack()

self.quantity\_label = tk.Label(root, text="Quantity")

self.quantity\_label.pack()

self.quantity\_var = tk.IntVar(value=1)

self.quantity\_entry = tk.Entry(root, textvariable=self.quantity\_var)

self.quantity\_entry.pack()

self.add\_button = tk.Button(root, text="Add to Cart", command=self.add\_to\_cart)

self.add\_button.pack()

self.view\_cart\_button = tk.Button(root, text="View Cart", command=self.view\_cart)

self.view\_cart\_button.pack()

def add\_to\_cart(self):

item\_name = self.item\_var.get()

quantity = self.quantity\_var.get()

price = items[item\_name]

total\_item\_price = price \* quantity

self.cart.append({

"item": item\_name,

"quantity": quantity,

"price\_per\_item": price,

"total\_price": total\_item\_price

})

self.total += total\_item\_price

messagebox.showinfo("Success", f"Added {quantity} {item\_name}(s) to cart.")

def view\_cart(self):

BillForm(self.root, self.cart, self.total)

# Second form: Display bill and save to MongoDB

class BillForm:

def \_\_init\_\_(self, root, cart, total):

self.root = root

self.cart = cart

self.total = total

self.bill\_window = tk.Toplevel(self.root)

self.bill\_window.title("Billing System - Bill")

self.bill\_text = tk.Text(self.bill\_window, width=50, height=20)

self.bill\_text.pack()

self.display\_bill()

self.save\_button = tk.Button(self.bill\_window, text="Save Bill", command=self.save\_bill)

self.save\_button.pack()

def display\_bill(self):

bill\_text = ""

for item in self.cart:

bill\_text += f"{item['item']} (x{item['quantity']}): {item['total\_price']}\n"

bill\_text += f"\nTotal: {self.total}"

self.bill\_text.insert(tk.END, bill\_text)

def save\_bill(self):

bill\_data = {

"items": self.cart,

"total": self.total

}

bills\_collection.insert\_one(bill\_data)

messagebox.showinfo("Success", "Bill saved to database!")

# Main application

if \_\_name\_\_ == "\_\_main\_\_":

root = tk.Tk()

app = AddItemsForm(root)

root.mainloop()