from pymongo import MongoClient

def show\_all\_records(collection):

"""Fetch and display all records from the collection."""

cursor = collection.find()

found = False

for document in cursor:

found = True

print(f"ID: {document.get('\_id')}, Name: {document.get('Name')}, "

f"Age: {document.get('Age')}, Mobile Number: {document.get('Mobile Number')}")

if not found:

print("No records found.")

def insert\_record(collection):

"""Insert a new record."""

name = input("Enter name: ")

age = int(input("Enter age: "))

mobile\_no = input("Enter Mobile Number: ")

collection.insert\_one({"Name": name, "Age": age, "Mobile Number": mobile\_no})

print("Record inserted successfully.")

def delete\_record(collection):

"""Delete a record based on name."""

name = input("Enter the name of the record to delete: ")

result = collection.delete\_one({"Name": name})

if result.deleted\_count > 0:

print(f"Record with name '{name}' deleted successfully.")

else:

print(f"No record found with name '{name}'.")

def update\_record(collection):

"""Update a specific field of a record."""

name = input("Enter the name of the record to update: ")

record = collection.find\_one({"Name": name})

if record:

print("Record found. Enter the new values (press Enter to skip):")

new\_name = input(f"Enter new name (current: {record['Name']}): ") or record["Name"]

new\_age = input(f"Enter new age (current: {record['Age']}): ") or record["Age"]

new\_mobile = input(f"Enter new Mobile Number (current: {record['Mobile Number']}): ") or record["Mobile Number"]

# Update the record in the collection

collection.update\_one(

{"\_id": record["\_id"]},

{"$set": {"Name": new\_name, "Age": int(new\_age), "Mobile Number": new\_mobile}}

)

print("Record updated successfully.")

else:

print(f"No record found with name '{name}'.")

def main():

# Connect to MongoDB server

mongo = MongoClient("localhost", 27017)

print("Connected to the database successfully")

db = mongo["Info"]

collection = db["Personal"]

while True:

print("\n--- Menu ---")

print("1. Insert a record")

print("2. Delete a record")

print("3. Update a record")

print("4. Show all records")

print("5. Drop the database")

print("6. Exit")

choice = input("Enter your choice: ")

if choice == '1':

insert\_record(collection)

elif choice == '2':

delete\_record(collection)

elif choice == '3':

update\_record(collection)

elif choice == '4':

show\_all\_records(collection)

elif choice == '5':

confirmation = input("Are you sure you want to drop the database? (y/n): ")

if confirmation.lower() == 'y':

db.command("dropDatabase")

print("Database dropped successfully.")

elif choice == '6':

print("Exiting the program.")

break

else:

print("Invalid choice. Please try again.")

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

main()