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from pymongo import MongoClient

# Connect to MongoDB
client = MongoClient("mongodb://localhost:27017/")
db = client["connectivity"]
collection = db["students"]

# Insert a document
def insert_document():
    name = input("Enter name: ")
    age = int(input("Enter age: "))
    city = input("Enter city: ")

    doc = {"name": name, "age": age, "city": city}
    result = collection.insert_one(doc)
    print(f"Inserted with ID: {result.inserted_id}")

# Find documents
def find_documents():
    print("\nAll documents in collection:")
    for doc in collection.find():
        print(doc)

# Update a document
def update_document():
    name = input("Enter the name to update: ")
    new_age = int(input("Enter new age: "))
    result = collection.update_one(
        {"name": name},
        {"$set": {"age": new_age}}
    )
    if result.modified_count > 0:
        print("Document updated.")
    else:
        print("No matching document found.")

# Delete a document
def delete_document():
    name = input("Enter the name to delete: ")
    result = collection.delete_one({"name": name})
    if result.deleted_count > 0:
        print("Document deleted.")
    else:
        print("No matching document found.")

# Main menu loop
def main():
    while True:
        print("\n--- MongoDB Menu ---")
        print("1. Insert Document")
        print("2. Find Documents")
        print("3. Update Document")

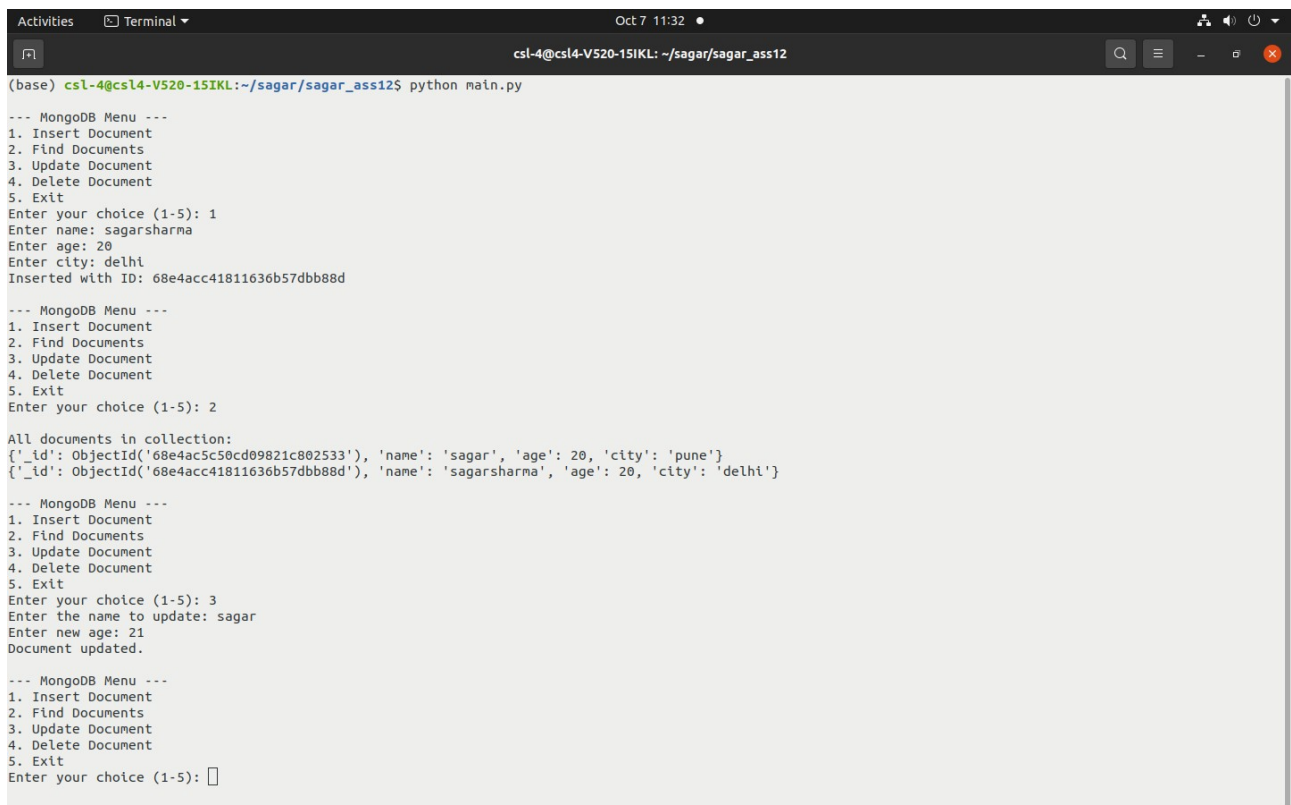
```

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print("4. Delete Document")
print("5. Exit")
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```
choice = input("Enter your choice (1-5): ")
```

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if choice == '1':
    insert_document()
elif choice == '2':
    find_documents()
elif choice == '3':
    update_document()
elif choice == '4':
    delete_document()
elif choice == '5':
    print("Exiting program.")
    break
else:
    print("Invalid choice. Try again.")
```

```
if __name__ == "__main__":
    main()
```



The screenshot shows a terminal window titled "Terminal" with the date and time "Oct 7 11:32". The terminal displays the output of running a Python script named "main.py". The script is a MongoDB menu application. It starts with a menu showing five options: 1. Insert Document, 2. Find Documents, 3. Update Document, 4. Delete Document, and 5. Exit. The user enters '1' to insert a document. The program prompts for a name, age, and city, and then displays the inserted document's ID. The user enters '2' to find documents. The program displays all documents in the collection. The user enters '3' to update a document. The program prompts for the name to update and the new age, and then displays the updated document. The user enters '4' to delete a document, but the program does not display any output for this option.

```
(base) csl-4@csl4-V520-15IKL: ~/sagar/sagar_ass12$ python main.py

--- MongoDB Menu ---
1. Insert Document
2. Find Documents
3. Update Document
4. Delete Document
5. Exit
Enter your choice (1-5): 1
Enter name: sagarsharma
Enter age: 20
Enter city: delhi
Inserted with ID: 68e4acc41811636b57dbb88d

--- MongoDB Menu ---
1. Insert Document
2. Find Documents
3. Update Document
4. Delete Document
5. Exit
Enter your choice (1-5): 2

All documents in collection:
{'_id': ObjectId('68e4ac5c50cd09821c802533'), 'name': 'sagar', 'age': 20, 'city': 'pune'}
{'_id': ObjectId('68e4acc41811636b57dbb88d'), 'name': 'sagarsharma', 'age': 20, 'city': 'delhi'}

--- MongoDB Menu ---
1. Insert Document
2. Find Documents
3. Update Document
4. Delete Document
5. Exit
Enter your choice (1-5): 3
Enter the name to update: sagar
Enter new age: 21
Document updated.

--- MongoDB Menu ---
1. Insert Document
2. Find Documents
3. Update Document
4. Delete Document
5. Exit
Enter your choice (1-5): 4
```