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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")

choice = input("Enter your choice (1-5): ")

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 command 'python main.py' run. The output displays a menu for MongoDB operations (Insert, Find, Update, Delete, Exit) and demonstrates the insertion of a document, its retrieval, and its update.

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Activities Terminal Oct 7 11:32
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('68e4acc5c50cd09821c802533'), '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): 

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