# Vault Of Codes: Mini Project

Project Name: “ Command-Line To-Do List Manager”

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GitHub Link : P-Prabhash/-Personal-Expense-Tracker: Personal Expense Tracker

## Source Code:

```
import sqlite3
from datetime import datetime


# --- Database Setup ---
conn = sqlite3.connect("todo.db")
c = conn.cursor()


c.execute("""
    CREATE TABLE IF NOT EXISTS tasks (
        id INTEGER PRIMARY KEY AUTOINCREMENT,
        task TEXT NOT NULL,
        status TEXT NOT NULL,
        created_at TEXT NOT NULL
    )
""")
conn.commit()


# --- Functions ---
def add_task(task):
    c.execute("INSERT INTO tasks (task, status, created_at) VALUES (?, ?, ?)",
              (task, "Pending", datetime.now().strftime("%Y-%m-%d %H:%M:%S")))
    conn.commit()
    print("✅ Task added successfully!")

def view_tasks():
    c.execute("SELECT * FROM tasks")
    rows = c.fetchall()
    if not rows:
        print("📭 No tasks available.")
    else:
        print("\n--- To-Do List ---")
        for row in rows:
            print(f"[{row[0]}] {row[1]} - {row[2]} (Added on {row[3]})")

def mark_done(task_id):
    c.execute("UPDATE tasks SET status = 'Done' WHERE id = ?", (task_id,))
    conn.commit()
    print("✅ Task marked as done!")

def delete_task(task_id):
    c.execute("DELETE FROM tasks WHERE id = ?", (task_id,))
    conn.commit()
    print("🗑️ Task deleted successfully!")

def update_task(task_id, new_task):
    c.execute("UPDATE tasks SET task = ? WHERE id = ?", (new_task, task_id))
    conn.commit()
    print("✏️ Task updated successfully!")

# --- Menu ---
def main():
```

```
while True:
    print("\n--- Command-Line To-Do List Manager ---")
    print("1. Add Task")
    print("2. View Tasks")
    print("3. Mark Task as Done")
    print("4. Update Task")
    print("5. Delete Task")
    print("6. Exit")

    choice = input("Enter your choice (1-6): ")

    if choice == "1":
        task = input("Enter task: ")
        add_task(task)

    elif choice == "2":
        view_tasks()

    elif choice == "3":
        try:
            task_id = int(input("Enter task ID to mark as done: "))
            mark_done(task_id)
        except ValueError:
            print("❌ Invalid input.")

    elif choice == "4":
        try:
            task_id = int(input("Enter task ID to update: "))
            new_task = input("Enter new task description: ")
```

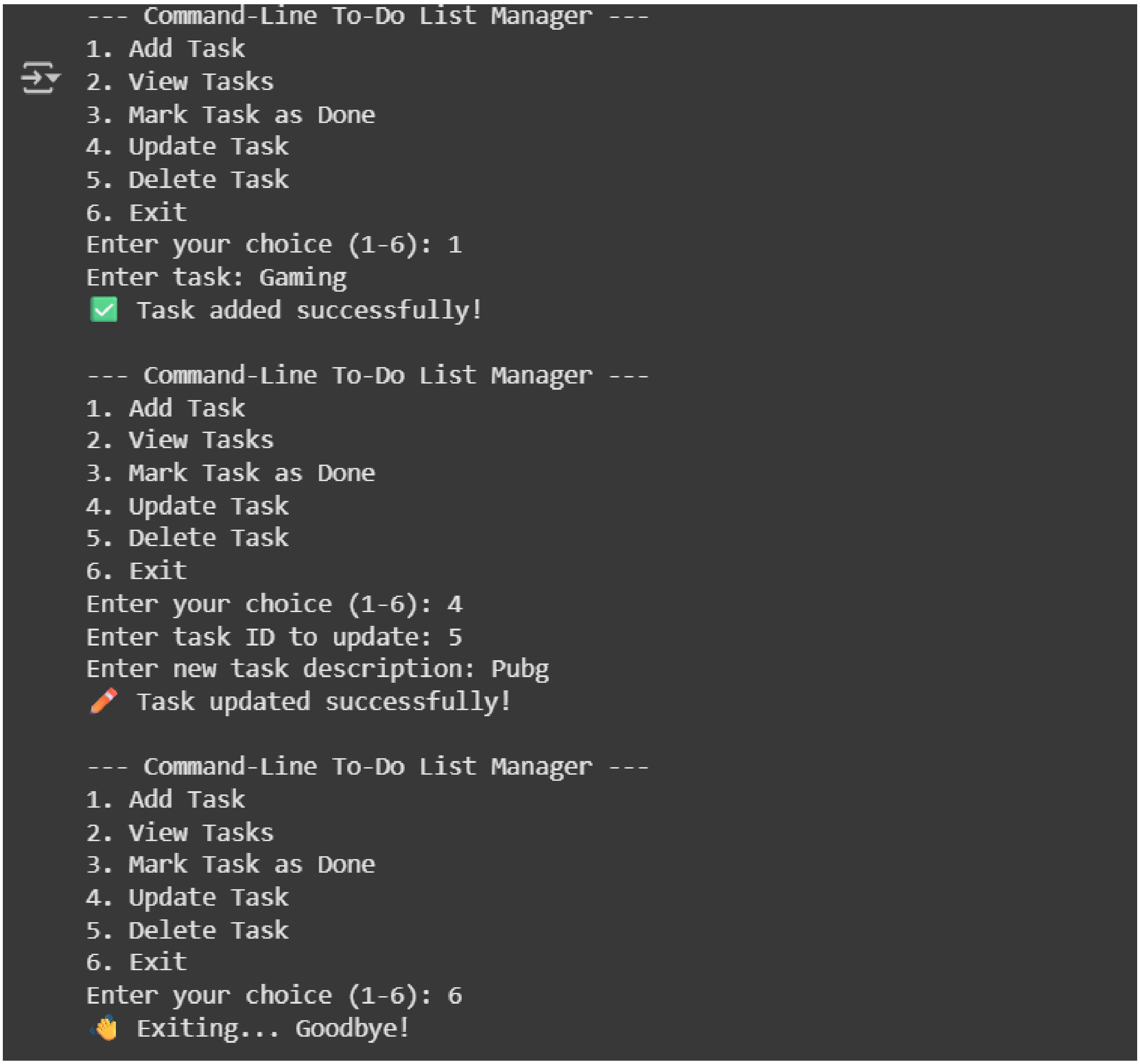
```
                update_task(task_id, new_task)
            except ValueError:
                print("❌ Invalid input.")

        elif choice == "5":
            try:
                task_id = int(input("Enter task ID to delete: "))
                delete_task(task_id)
            except ValueError:
                print("❌ Invalid input.")

        elif choice == "6":
            print("👋 Exiting... Goodbye!")
            break
        else:
            print("❌ Invalid choice. Try again.")

if __name__ == "__main__":
    main()
    conn.close()
```

**Output:**



```
--- Command-Line To-Do List Manager ---
1. Add Task
2. View Tasks
3. Mark Task as Done
4. Update Task
5. Delete Task
6. Exit
Enter your choice (1-6): 1
Enter task: Gaming
✅ Task added successfully!

--- Command-Line To-Do List Manager ---
1. Add Task
2. View Tasks
3. Mark Task as Done
4. Update Task
5. Delete Task
6. Exit
Enter your choice (1-6): 4
Enter task ID to update: 5
Enter new task description: Pubg
✏️ Task updated successfully!

--- Command-Line To-Do List Manager ---
1. Add Task
2. View Tasks
3. Mark Task as Done
4. Update Task
5. Delete Task
6. Exit
Enter your choice (1-6): 6
👋 Exiting... Goodbye!
```

P Prabhash

(Signature)