```
# database
import sqlite3
```

```
# store data

# create a todo list table
def create_todo_table(conn):
    cursor = conn.cursor()
    cursor.execute('''CREATE TABLE IF NOT EXISTS todos (id INTEGER PRIMARY K
    conn.commit()
```

```
# interact/manipulate

# add a new task to the todo list
def add_task(conn, task):
    cursor = conn.cursor()
    cursor.execute('INSERT INTO todos (task) VALUES (?)', (task,))
    conn.commit()

# update the completion status of a task, 1 complete, 0 not complete
def update_task_status(conn, task_id, completed):
    cursor = conn.cursor()
    cursor.execute('UPDATE todos SET completed = ? WHERE id = ?', (complete
    conn.commit()

# delete a task from the todo list
def delete_task(conn, task_id):
    cursor = conn.cursor()
    cursor.execute('DELETE FROM todos WHERE id = ?', (task_id))
    conn.commit()
```

```
# retrieve data

# retrieve/view all of the tasks in the todo list
def get_tasks(conn):
    cursor = conn.cursor()
    cursor.execute('SELECT * FROM todos')
    tasks = cursor.fetchall()
    return tasks
```

```
# Main function
```

```
# Main function
def main():

    # connect to the SQLite database
    conn = sqlite3.connect('todo.db')

    # create the todo list table
    create_todo_table(conn)

    # loop until you exit
    while True:
        # menu interface for tasks
        print("\nTODO LIST")
        print("1. Add Task")
        print("2. View Tasks")
        print("3. Update Task Status")
        print("4. Delete Task")
        print("5. Exit")

        choice = input("Enter your choice: ")

        if choice == '1':
            task = input("Enter task: ")
            add_task(conn, task)
            print("Task added successfully!")

        elif choice == '2':
            tasks = get_tasks(conn)
            if not tasks:
                print("No tasks found.")
            else:
                for task in tasks:
                    print(f"{task[0]}. {task[1]} - {'Completed' if task[2] e

        elif choice == '3':
            task_id = int(input("Enter task ID: "))
            completed = int(input("Enter completion status (1 for completed,
            update_task_status(conn, task_id, completed)
            print("Task status updated successfully!")

        elif choice == '4':
            task_id = int(input("Enter task ID: "))
            delete_task(conn, task_id)
            print("Task deleted successfully!")
```

```
            print("Task deleted successfully.")

        elif choice == '5':
            print("Exiting...")
            break

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

    # close the database connection
    conn.close()
```

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

```
TODO LIST
1. Add Task
2. View Tasks
3. Update Task Status
4. Delete Task
5. Exit
Enter your choice: 2
1. Walk dog - Completed
2. Walk dog - Incomplete

TODO LIST
1. Add Task
2. View Tasks
3. Update Task Status
4. Delete Task
5. Exit
Enter your choice: 5
Exiting...
```