```
#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 KEY,
                    task TEXT NOT NULL,
                    completed INTEGER DEFAULT 0
                    )''')
  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 = ?', (completed, task_id))
  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.fecthall()
  return tasks
```

```
# 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] else 'Incomplete'}}")

    elif choice == '3':
        task_id = int(input("Enter task ID: "))
        completed = int(input("Enter completion status (1 for completed, 0 for incomplete): "))
        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!")

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

    else:

#close the database connection (Could not get this to work)
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: bake cake
Invalid choice. Please try again.

TODO LIST
1. Add Task
2. View Tasks
3. Update Task Status
4. Delete Task
5. Exit
Enter your choice: view task
Invalid choice. Please try again.

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