# Function to add a task to the to-do list

def add\_task(task):

with open('todo\_list.txt', 'a') as f:

f.write(f"{task}\n")

print(f"Task '{task}' added to the to-do list.")

# Function to delete a task from the to-do list

def delete\_task(task\_index):

tasks = read\_tasks()

if task\_index >= 0 and task\_index < len(tasks):

deleted\_task = tasks.pop(task\_index)

with open('todo\_list.txt', 'w') as f:

for task in tasks:

f.write(f"{task}\n")

print(f"Task '{deleted\_task}' deleted from the to-do list.")

else:

print("Invalid task index. No task deleted.")

# Function to update a task in the to-do list

def update\_task(task\_index, new\_task):

tasks = read\_tasks()

if task\_index >= 0 and task\_index < len(tasks):

old\_task = tasks[task\_index]

tasks[task\_index] = new\_task

with open('todo\_list.txt', 'w') as f:

for task in tasks:

f.write(f"{task}\n")

print(f"Task '{old\_task}' updated to '{new\_task}'.")

else:

print("Invalid task index. No task updated.")

# Function to view all tasks in the to-do list

def view\_tasks():

tasks = read\_tasks()

if tasks:

print("To-Do List:")

for index, task in enumerate(tasks, start=1):

print(f"{index}. {task}")

else:

print("To-Do List is empty.")

# Function to read tasks from the to-do list file

def read\_tasks():

try:

with open('todo\_list.txt', 'r') as f:

tasks = f.read().splitlines()

return tasks

except FileNotFoundError:

return []

# Main function to interact with the user

def main():

while True:

print("\nTo-Do List Application:")

print("1. View Tasks")

print("2. Add Task")

print("3. Delete Task")

print("4. Update Task")

print("0. Exit")

choice = input("Enter your choice: ")

if choice == '1':

view\_tasks()

elif choice == '2':

task = input("Enter task to add: ")

add\_task(task)

elif choice == '3':

task\_index = int(input("Enter task index to delete: ")) - 1

delete\_task(task\_index)

elif choice == '4':

task\_index = int(input("Enter task index to update: ")) - 1

new\_task = input("Enter new task: ")

update\_task(task\_index, new\_task)

elif choice == '0':

print("Exiting the To-Do List Application.")

break

else:

print("Invalid choice. Please choose a valid option.")

if \_\_name\_\_ == "\_\_main\_\_":

main()