

Cothon Task-1: Aniketh Devaiga

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import sys

# List to store tasks

todo_list = []

# Function to display all tasks

def show_tasks():

    if len(todo_list) == 0:

        print("Your to-do list is empty.")

    else:

        print("\nYour To-Do List:")

        for i, task in enumerate(todo_list, 1):

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

        print()

# Function to add a new task

def add_task(task):

    todo_list.append(task)

    print(f"Added task: {task}\n")

# Function to remove a task

def remove_task(index):

    try:
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        removed = todo_list.pop(index - 1)

        print(f"Removed task: {removed}\n")

except IndexError:

    print(f"No task at position {index}\n")


# Function to update a task

def update_task(index, new_task):

    try:

        old_task = todo_list[index - 1]

        todo_list[index - 1] = new_task

        print(f"Updated task {index}: {old_task} to {new_task}\n")

    except IndexError:

        print(f"No task at position {index}\n")


# Main loop to handle user commands

def main():

    while True:

        print("Options: ")

        print("1. View To-Do List")

        print("2. Add Task")

        print("3. Remove Task")

        print("4. Update Task")

        print("5. Exit")

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

    show_tasks()

elif choice == "2":

    task = input("Enter the new task: ")

    add_task(task)

elif choice == "3":

    show_tasks()

    index = int(input("Enter the task number to remove: "))

    remove_task(index)

elif choice == "4":

    show_tasks()

    index = int(input("Enter the task number to update: "))

    new_task = input("Enter the updated task: ")

    update_task(index, new_task)

elif choice == "5":

    print("Exiting the To-Do List application. Goodbye!")

    sys.exit()

else:

    print("Invalid choice. Please enter a number between 1 and 5.\n")


if __name__ == "__main__":

    main()
```