

#### Lab Assignment 4

Subject: Data Structure Lab

Name: Sojal Kadam

Roll no: CO2058

#### Input:

```
event_queue = []
def add_event(text):
    event_queue.append(text)
    print(f"Event '{text}' added")
def process_event():
    if event_queue:
        event = event_queue.pop(0)
        print(f"Processed event: {event}")
    else:
        print("No event to process")
def pending_events():
    if event_queue:
        print("Events remaining are:", end=" ")
        for ev in event_queue:
            print(ev, end=" ")
        print()
    else:
        print("No events pending")
def cancel_event():
    if event_queue:
        a = input("Enter event to be cancelled: ")
        if a in event_queue:
            event_queue.remove(a)
            print(f"Event '{a}' cancelled")
        else:
            print("Event not found in queue")
    else:
        print("No event to cancel")

while True:
    print("\n--- MENU ---")
    print("1. Add an event")
    print("2. Process an event")
    print("3. Display pending events")
    print("4. Cancel an event")
    print("5. Exit")

    choice = int(input("Enter your choice: "))

    if choice == 1:
        text = input("Enter an event: ")
        add_event(text)
    elif choice == 2:
        process_event()
    elif choice == 3:
        pending_events()
```

```
elif choice == 4:
    cancel_event()
elif choice == 5:
    print("Exiting...")
    break
else:
    print("Invalid choice! Try again.")
```

### Output:

```
--- MENU ---
1. Add an event
2. Process an event
3. Display pending events
4. Cancel an event
5. Exit
Enter your choice: 1
Enter an event: annual day
Event 'annual day' added

--- MENU ---
1. Add an event
2. Process an event
3. Display pending events
4. Cancel an event
5. Exit
Enter your choice: 1
Enter an event: sports day
Event 'sports day' added

--- MENU ---
1. Add an event
2. Process an event
3. Display pending events
4. Cancel an event
5. Exit
Enter your choice: 3
Events remaining are: annual day sports day
```