START

User objects are created

Elevator object is created

Elevator thread starts running

Elevator moves up and down pick and dropping available passengers

User threads start running

Users access the elevator randomly

They randomly move to a certain floor

They wait for the elevator if it is not yet at their floor

Once elevator reaches their floor,

They go in if elevator is not full and weight limit will not be exceeded

Once inside they wait for the elevator to reach their floor where they will leave

This process repeats itself a for a certain time simulating the end of a work day

END