

ASSIGNMENT 5 – Sleeping Tutor

Submitted By: Viveka(J01258735)

- **Tutor:** A single thread that helps students with their programming assignments.
- **Students:** Multiple threads (in this case, 10 students) that alternate between studying and seeking help from the tutor.

```
vk@VivekaLaptop: ~/OS/sleepingtutor$ cargo build
Compiling sleepingtutor v0.1.0 (/home/vk/OS/sleepingtutor)
Finished `dev` profile [unoptimized + debuginfo] target(s) in 0.52s
vk@VivekaLaptop:~/OS/sleepingtutor$ cargo run
Finished `dev` profile [unoptimized + debuginfo] target(s) in 0.00s
Running `target/debug/sleepingtutor`
Student 4 is waking up the tutor.
Student 4 is waiting in the hallway.
Student 5 is waiting in the hallway.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is sleeping...
Student 8 is waking up the tutor.
Student 8 is waiting in the hallway.
Student 0 is waiting in the hallway.
Student 3 is waiting in the hallway.
Student 2 will try again later, no chairs available.
Student 6 will try again later, no chairs available.
Student 1 will try again later, no chairs available.
Student 7 will try again later, no chairs available.
Student 9 will try again later, no chairs available.
Student 4 is getting help from the tutor.
Student 4 is waiting in the hallway.
Student 5 is getting help from the tutor.
Student 5 is waiting in the hallway.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is sleeping...
Student 1 is waking up the tutor.
Student 1 is waiting in the hallway.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is sleeping...
Student 8 is getting help from the tutor.
Student 8 is waking up the tutor.
```

```
Tutor has finished helping a student.
Tutor is sleeping...
Student 8 is getting help from the tutor.
Student 8 is waking up the tutor.
Student 8 is waiting in the hallway.
Student 0 is getting help from the tutor.
Student 0 is waiting in the hallway.
Student 3 is getting help from the tutor.
Student 3 is waiting in the hallway.
Student 4 is getting help from the tutor.
Student 4 is waiting in the hallway.
Student 2 is waiting in the hallway.
Student 5 is getting help from the tutor.
Student 5 is waiting in the hallway.
Student 6 is waiting in the hallway.
Student 7 will try again later, no chairs available.
Student 9 will try again later, no chairs available.
Student 1 is getting help from the tutor.
Student 1 is waiting in the hallway.
Student 8 is getting help from the tutor.
Student 8 is waiting in the hallway.
Student 0 is getting help from the tutor.
Student 0 is waiting in the hallway.
Student 3 is getting help from the tutor.
Student 3 is waiting in the hallway.
Student 4 is getting help from the tutor.
Student 4 is waiting in the hallway.
Student 2 is getting help from the tutor.
Student 2 is waiting in the hallway.
Student 7 will try again later, no chairs available.
Student 9 will try again later, no chairs available.
Student 5 is getting help from the tutor.
Student 5 is waiting in the hallway.
Student 6 is getting help from the tutor.
Student 6 is waiting in the hallway.
Student 1 is getting help from the tutor.
Student 1 is waiting in the hallway.
Student 8 is getting help from the tutor.
Student 8 is waiting in the hallway.
Student 0 is getting help from the tutor.
Student 0 is waiting in the hallway.
```

```
Student 6 is waiting in the hallway.
Student 1 is getting help from the tutor.
Student 1 is waiting in the hallway.
Student 8 is getting help from the tutor.
Student 8 is waiting in the hallway.
Student 0 is getting help from the tutor.
Student 0 is waiting in the hallway.
Student 3 is getting help from the tutor.
Student 3 is waiting in the hallway.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is sleeping...
Student 9 is waking up the tutor.
Student 9 is waiting in the hallway.
Tutor is helping a student...
Tutor has finished helping a student.
Tutor is done for the day.
Student 6 is getting help from the tutor.
Student 6 is done for the day.
Student 1 is getting help from the tutor.
Student 1 is done for the day.
Student 8 is getting help from the tutor.
Student 8 is done for the day.
Student 0 is getting help from the tutor.
Student 0 is done for the day.
Student 3 is getting help from the tutor.
Student 3 is done for the day.
Student 7 is done for the day.
Student 2 is getting help from the tutor.
Student 2 is done for the day.
Student 5 is getting help from the tutor.
Student 5 is done for the day.
Student 9 is getting help from the tutor.
Student 9 is done for the day.
Student 4 is getting help from the tutor.
Student 4 is done for the day.
vk@VivekaLaptop:~/OS/sleepingtutor$
```