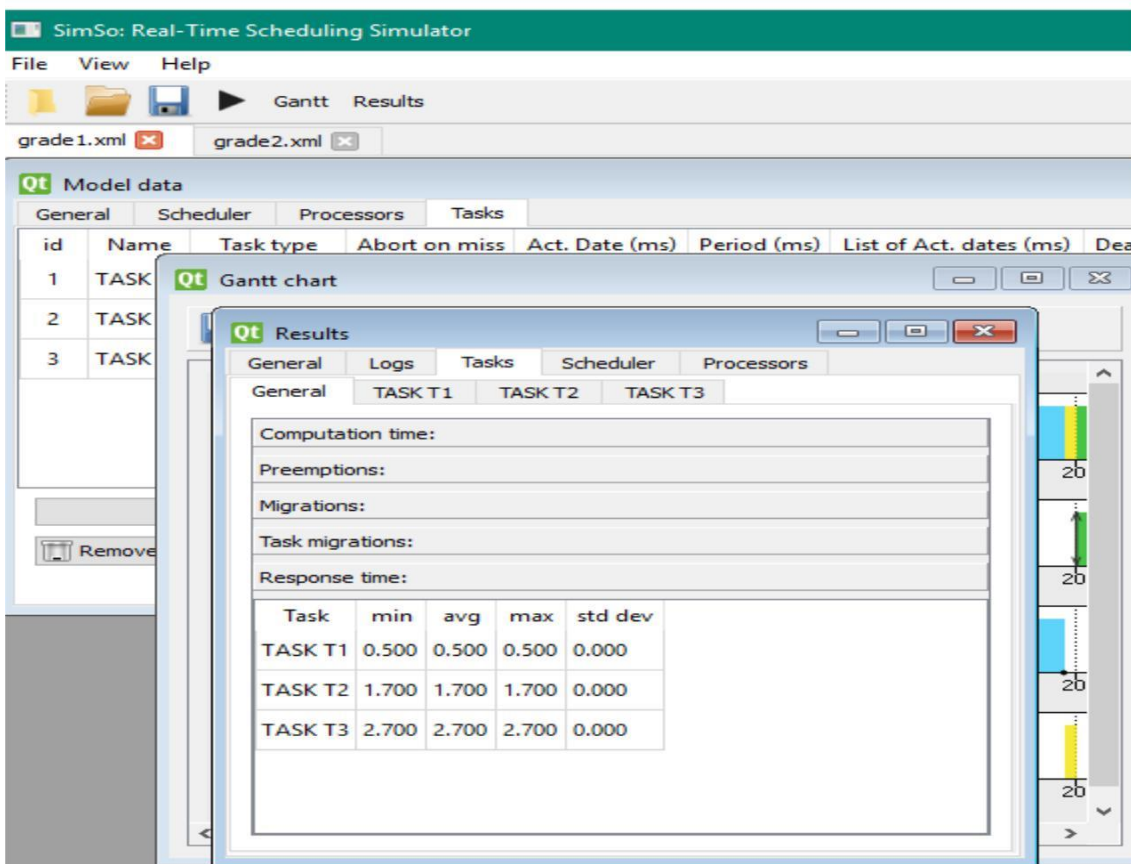
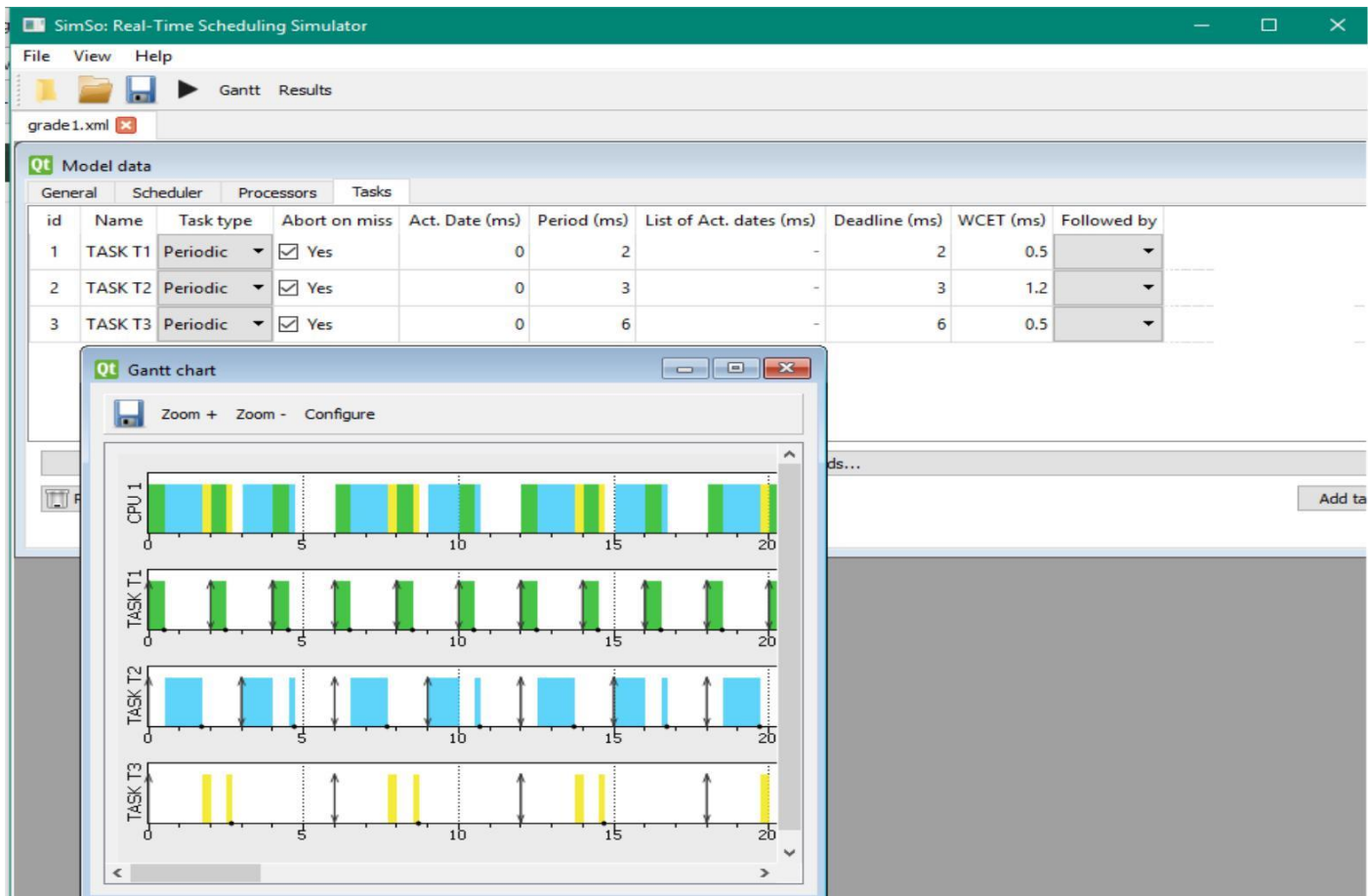


Assignment 3

Simulation Assignment 1:



1. What is the utilization factor of the system and what is the value for $U_{rm}(3)$

$U=0.7410$ and $U_{rm}=0.779$

$U < U_{rm}$, so feasible

2. What is the minimum/maximum/average response time of all tasks?

Response time(min,max,avg)=> Task1: 0.5

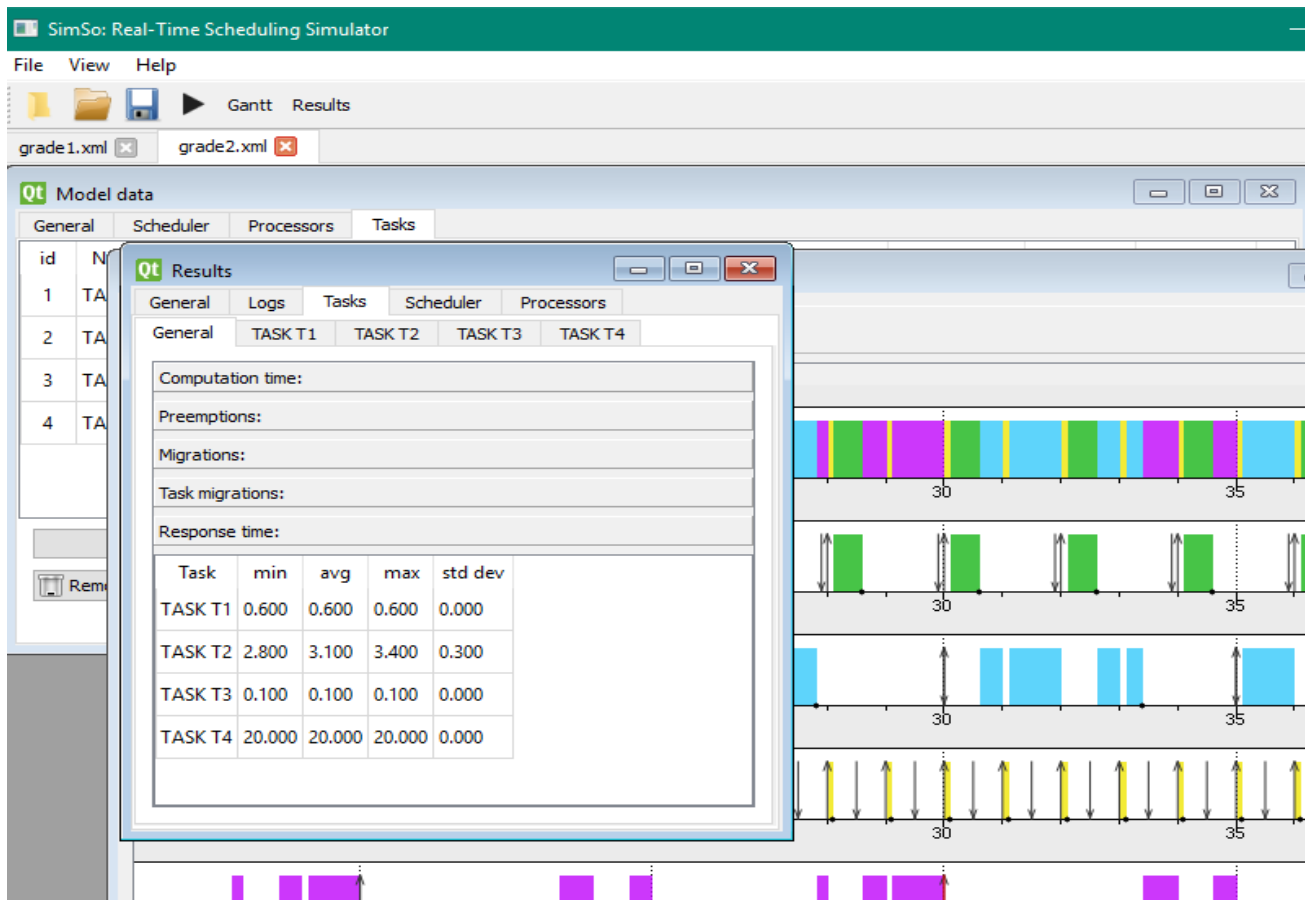
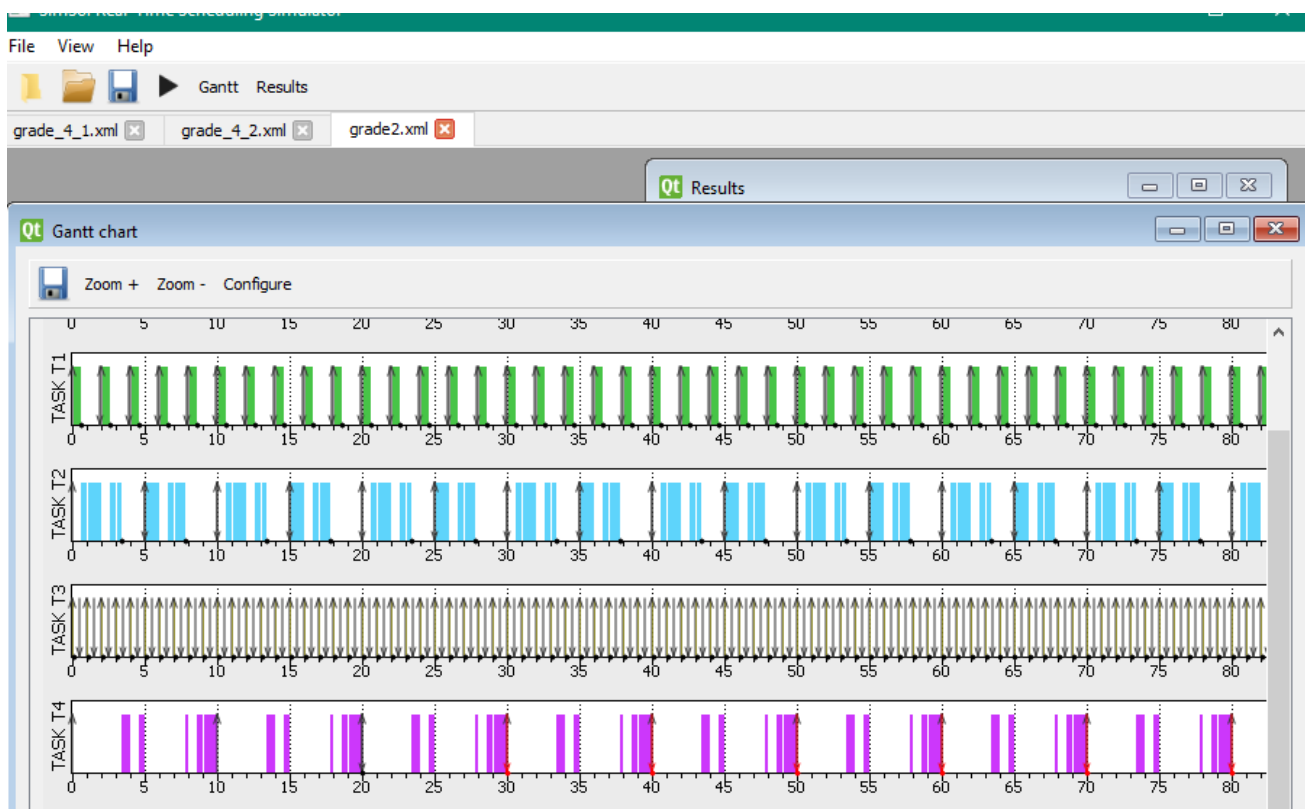
Task2: 1.7

Task3: 2.7

3. Is any task missing the deadline? Which task? Where?

No.

Simulation Assignment 1:



1. What is the utilization factor of the system and what is the value for $U_{rm}(3)$

$U=1.00$ and U_{rm} verification not applicable in EDF Scheduler.

2. What is the minimum/maximum/average response time of all tasks?

Response time=> Task1: min=0.6, max=0.6, avg=0.6

Task2: min=2.8, max=3.4, avg=3.1

Task3: min=0.1, max=0.1, avg=0.1

Task4: min=20, max=20, avg=20

3. Is any task missing the deadline? Which task? Where?

Yes. Task4

At $t=30, 40, 50, 60, 70, 80, 90, 100$

4. If a deadline is missed, could it be avoided by changing the scheduler?

No. Because the CPU is 100% used.