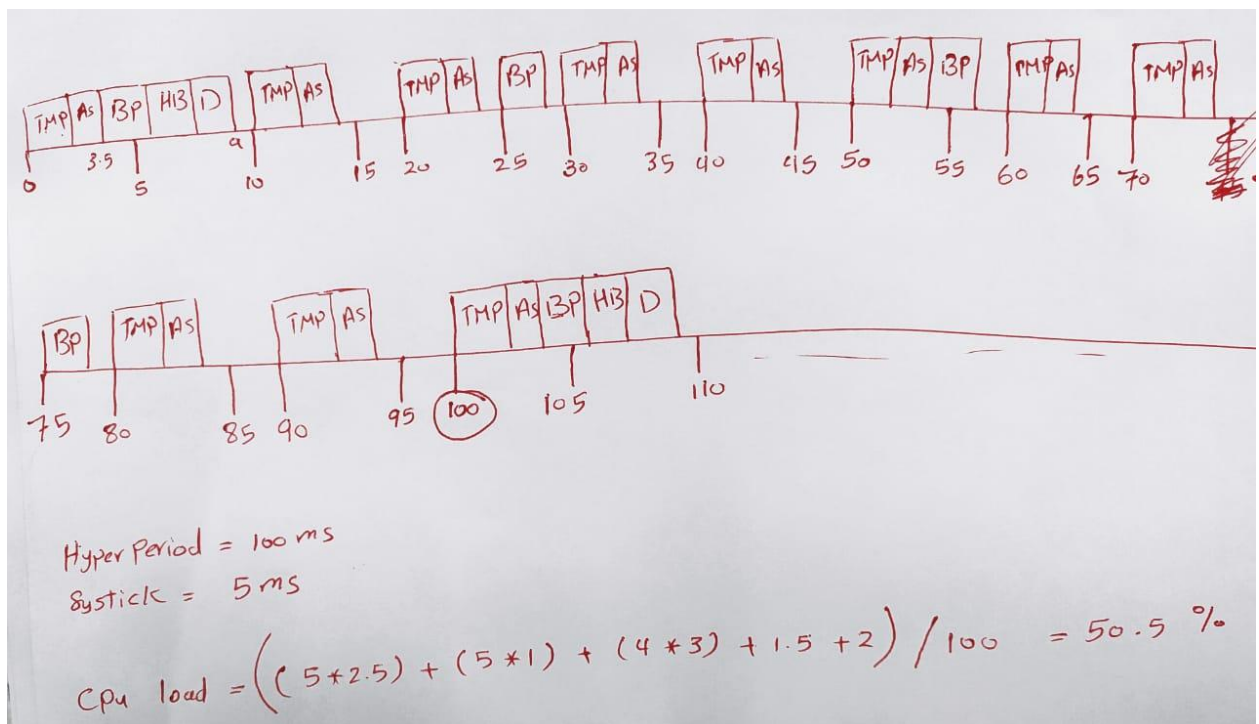
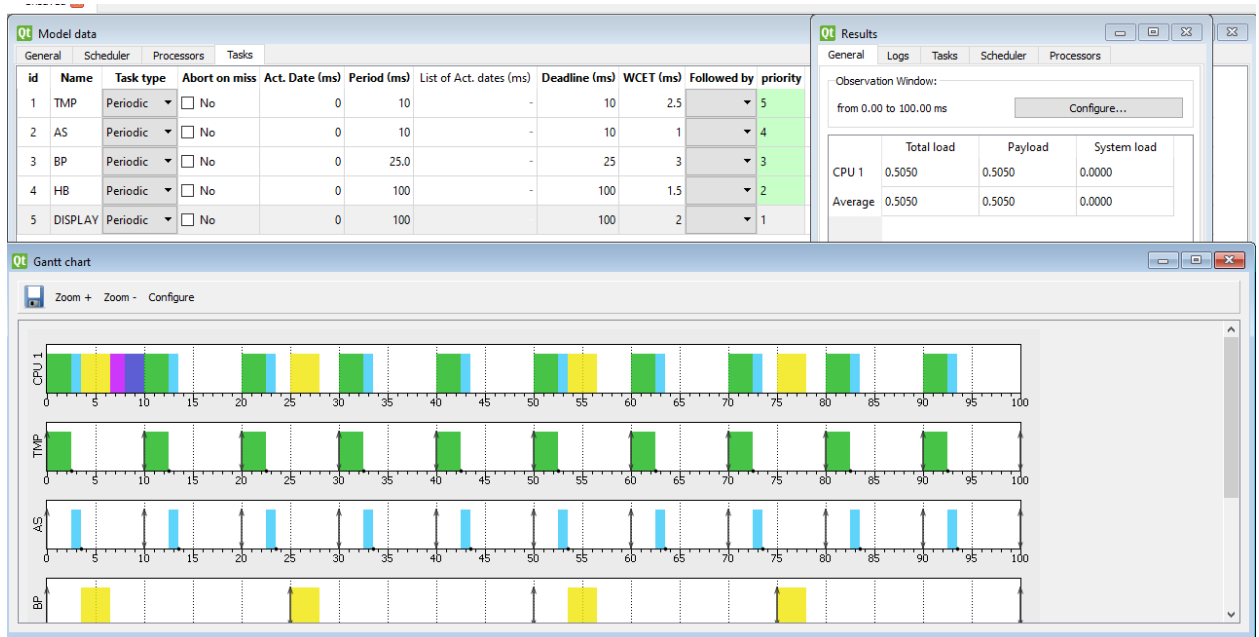


Design a healthcare system

- 5 tasks are needed
 - TMP task {Pre=10, E=2.5, P=5, D=10}
 - AS task {Pre=10, E=1, P=4, D=10}
 - BP task {Pre=25, E=3, P=3, D=25}
 - HB task {Pre=100, E=1.5, P=2, D=100}
 - Display task {Pre=100, E=2, P=1, D=100}
- SysTick = 5 ms
- HyperPeriod = 100 ms
- CPU load = $((5 \times 2.5) + (5 \times 1) + (4 \times 3) + 1.5 + 2) / 100 = 50.5 \%$
- Manual Timeline



- Simso's Timeline



- System is schedulable, compared to Simso's calculations, and it's not overloaded