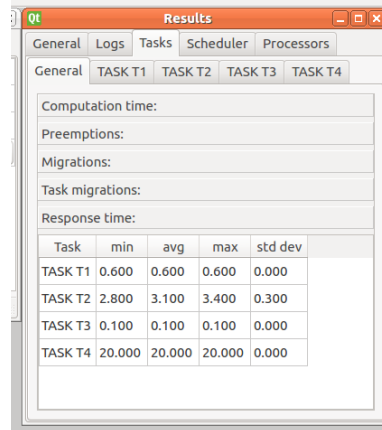Task set#2:

1- Utilization factor of the system by this equation $U = \sum_i \frac{e_i}{P_i} = \left(\frac{0.5}{2} + \frac{2}{5} + \frac{0.1}{1} + \frac{5}{10} \right) = 1.25$

URM(4) of the system by this equation $URM(4) = n(2^{\frac{1}{n}} - 1) = 0.7568$

2-

for 100 ms simulation

3- After 20 ms no task misses the deadline
   But after 40 ms, T4 misses at 30 and 40
4- I used RM and it misses deadline also.