1. According to the objective and background information, draw an overall block diagram of the closed loop system and clearly indicate the signals and blocks.
2. Open the preStep2.fig and approximate it as a FOPDT model. Simulate the step response of your estimated model and compare it with the original one in the same figure. G=1/(s^2+4\*s+1)
3. Using IMC correlations, obtain the PID parameters for moderate control.
4. Research and discuss the possible benefits of the heart rate control system. Give one example of the use of this structure.