Assignment 6

Download PICOS18 from www.picos18.com and do the following:

1   Work through the tutorial and try the application documented there.

PICOS18 offers a number of drivers for download on the web site. Get the drivers for the serial line (RS232) and the EEPROM, work through them, and realize the following application:

2   The board is connected to the workstation via the serial line. Take your reaction test application and reimplement it on top of PICOS18. Also implement a remote control for the application over the serial line that realizes the following commands:

- "New player <XY>" registers a new player to play the game.
- "Start" initializes the next round
- "Highscore" shows the top 20 achieved scores.

The high score should be stores in the EEPROM, and the system should keep the score between resets. Use one task for the reaction test, use another task for the remote control.

Additional information:

- Your submission should be self containing meaning that it should include the PICOS18 and have the paths set the way that it compiles out of the zip file.
- Make sure that you do not corrupt the data in the EEPROM.
- Keep the interrupt service routine as short as possible.
- Use events to signal between tasks