PROJECT:

Real Time Operating System

- Implemented both types i.e. Co-operative (Non Preemptive) and Preemptive.
- The code contained a RTOS mode selection option to select either of the 2 modes/ types of RTOS.
- 9 tasks were created each of which had a task control block, a separate stack associated with it and a priority (0-7) assigned.
- Round Robin Scheduling was implemented along with prioritization.
- RTOS developed for a self-soldered DsPIC33FJ128MC802 based board.
- Programming languages: Embedded C and Assembly (inline).
- IDE: MPLAB.
- Tools for debugging and testing: IDC3 (software breakpoints).
- Team project with 3 members in each team.