**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.

