**Information is accepted and stored in SRAM.**

**Program asks for maximum number of stations from user. User inputs required information.**

**Program asks for maximum number of stations from user. User inputs required information.**

**Program asks user to input names for all stations.**

**Information is rejected if the input is incorrect. An error message is displayed, program returns to previous module.**

**Program asks user to input the travel times between the stations.**

**Information is accepted and stored in SRAM.**

**Program stores string in SRAM, along with a null byte to end each string, in SRAM.**

**The user is asked to wait 5 seconds as configuration is completed.**

**Program asks user to input the maximum stop time of the monorail.**

**EXT\_INT interrupts from the push button are serviced. A variable is set =1 to indicate PB0/PB1 have been pressed.**

**Monorail starts running, displays the string “Next Station: “ with the name of the next station.**

**After the chosen length of travel time has elapsed, program checks the variable that indicates the PB0/PB1 have been pressed.**

**The stop button has not been pushed, monorail moves onto next station.**

**The stop button has been pushed, monorail stops at next station: name of current station displayed and motor stops.**

**Timer Overflow Interrupt is allowed to run, blinking two LEDs 3 times a second until the stop time has run out.**