## Sheet1

## **Round-Robbin Scheduler**

Task Control Blocks	3		NMI <b>↓</b>
TCB 1 ADR:	State R0-R15 FLAGS SP PC	RUN	Scan TCB states and find RUN state TCB. Change RUN to WAIT Save the NMI saved return info into the TCB Go to next TCB (round robin style)
TCB 2 ADR:	State R0-R15 FLAGS SP PC	WAIT	Overwrite the saved stack into NMI stack. Change state to RUN NMI return.
TCB 3 ADR:	State R0-R15 FLAGS SP PC	WAIT	Special Case
TCB 3 ADR:	State R0-R15 FLAGS SP PC	PRI	If PRI found, just NMI return.  PRI state must be reset before other tasks run.  Scheduler will not schedule until state = RUN  So, the App must set state to release scheduler to other apps  When State is RUN, scheduler will acts as before,  Saving the former state registers and setting status to WAIT.