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0001 PROGRAM PLC_PRG
0002 VAR
0003     FLoop: BOOL:=TRUE; (* First program loop *)
0004     Fp : FILEP; (* File pointer *)
0005     i : INT; (* Auxiliary variable *)
0006     TimeBf : UDINT; (* Time buffer *)
0007     CaseNr : USINT; (* Program case *)
0008     RxString : STRING(32); (* Rx string *)
0009     RxChars : USINT; (* Nr of characters *)
0010     Ptr : POINTER TO USINT; (* Auxiliary pointer *)
0011     Weight : REAL; (* Weight value (Kg) *)
0012     Sp: SysSerialPort; (* Serial port *)
0013 END_VAR
0001 (* ***** *)
0002 (* PROGRAM "WeightAcquire" *)
0003 (* ***** *)
0004 (* Questo programma esegue l'acquisizione del valore di peso. *)
0005 (* ----- *)
0006
0007 (* ----- *)
0008 (* INIZIALIZZAZIONE *)
0009 (* ----- *)
0010 (* Apro COM0 port in read/write ed inizializzo variabili. *)
0011
0012 IF (FLoop) THEN
0013     FLoop:=FALSE; (* First program loop *)
0014     Fp:=Sysfopen('COM2', 'rw'); (* File pointer *)
0015
0016     Sp.Open:=TRUE; (* Open command *)
0017     Sp.File:=Fp; (* File pointer *)
0018     Sp.Baudrate:=19200; (* 19200 bps *)
0019     Sp.DataBits:=8; (* 8 data bit *)
0020     Sp.Parity:='E'; (* Even parity *)
0021     Sp.StopBits:=1; (* 1 stop bit *)
0022     Sp.DTRManagement:=DTR_AUTO_WO_TIMES; (* DTR auto managed *)
0023     Sp.DTRComplement:=FALSE; (* DTR not complemented *)
0024     Sp.DTROnTime:=0; (* On time set to 0 *)
0025     Sp.DTROffTime:=0; (* Off time set to 0 *)
0026     RETURN;
0027 END_IF;
0028
0029 Sp(); (* Manage the serial port. *)
0030 IF NOT(Sp.Opened) THEN RETURN; END_IF;
0031
0032 (* ----- *)
0033 (* CASES PROGRAMMA *)
0034 (* ----- *)
0035 (* Gestione case programma. *)
0036
0037 CASE (CaseNr) OF
0038
0039     (* ----- *)
0040     (* Inizializzo ricezione stringa. *)
0041
0042     0:
0043     RxChars:=0; (* Nr of characters *)
0044     Ptr:=ADR(RxString); (* Auxiliary pointer *)
0045     CaseNr:=CaseNr+1; (* Program case *)
0046
0047     (* ----- *)
0048     (* Acquisisco i caratteri ricevuti, la stringa termina con <CR>. *)
0049
0050     1:
0051     WHILE (SysGetIChars(Fp) > 0) DO
0052         i:=Sysfgetc(Fp); (* Acquisisco il carattere *)
0053
0054         (* Controllo se <CR> fine stringa o se superato lunghezza. *)
0055
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0056	IF (i = 16#0D) THEN Ptr^:=0; CaseNr:=CaseNr+1; RETURN; END_IF;
0057	IF (RxChars >= SIZEOF(RxString)) THEN CaseNr:=0; RETURN; END_IF;
0058	
0059	(* Trasferisco carattere in buffer ricezione. *)
0060	
0061	Ptr^:=INT_TO_USINT(i);
0062	Ptr:=Ptr+1; (* Auxiliary pointer *)
0063	END_WHILE;
0064	
0065	(* ----- *)
0066	(* Arrivo con la stringa "Peso:120.5 Kg" catturata dalla pesa. *)
0067	
0068	2:
0069	SysVarsscanf(ADR(RxString), 'Peso:%f', REAL_TYPE, ADR(Weight));
0070	CaseNr:=0; (* Program case *)
0071	END_CASE;
0072	
0073	(* [End of file] *)
0074	