```
PROGRAM PLC_PRG
VAR
    FLoop: BOOL:=TRUE; (* First program loop *)
    Fp : FILEP; (* File pointer *)
    i : INT; (* Auxiliary variable *)
    TimeBf : UDINT; (* Time buffer *)
    CaseNr : USINT; (* Program case *)
    RxString : STRING(32); (* Rx string *)
    RxChars : USINT; (* Nr of characters *)
    Ptr : POINTER TO USINT; (* Auxiliary pointer *)
    Weight : REAL; (* Weight value (Kg) *)
    Sp: SysSerialPort; (* Serial port *)
END_VAR
```

```
(* ********************************************************************** *)
(* PROGRAM "WeightAcquire"                                                *)
(* ********************************************************************** *)
(* Questo programma esegue l'acquisizione del valore di peso.             *)
(* ---------------------------------------------------------------------- *)

    (* ---------------------------------------------------------------- *)
    (* INIZIALIZZAZIONE                                                 *)
    (* ---------------------------------------------------------------- *)
    (* Apro COM0 port in read/write ed inizializzo variabili. *)

    IF (FLoop) THEN
        FLoop:=FALSE; (* First program loop *)
        Fp:=Sysfopen('COM2', 'rw'); (* File pointer *)

        Sp.Open:=TRUE; (* Open command *)
        Sp.File:=Fp; (* File pointer *)
        Sp.Baudrate:=19200; (* 19200 bps *)
        Sp.DataBits:=8; (* 8 data bit *)
        Sp.Parity:='E'; (* Even parity *)
        Sp.StopBits:=1; (* 1 stop bit *)
        Sp.DTRManagement:=DTR_AUTO_WO_TIMES; (* DTR auto managed *)
        Sp.DTRComplement:=FALSE; (* DTR not complemented *)
        Sp.DTROnTime:=0; (* On time set to 0 *)
        Sp.DTROffTime:=0; (* Off time set to 0 *)
        RETURN;
    END_IF;

    Sp(); (* Manage the serial port. *)
    IF NOT(Sp.Opened) THEN RETURN; END_IF;

    (* ---------------------------------------------------------------- *)
    (* CASES PROGRAMMA                                                  *)
    (* ---------------------------------------------------------------- *)
    (* Gestione case programma. *)

    CASE (CaseNr) OF

        (* ------------------------------------------------------------ *)
        (* Inizializzo ricezione stringa. *)

        0:
        RxChars:=0; (* Nr of characters *)
        Ptr:=ADR(RxString); (* Auxiliary pointer *)
        CaseNr:=CaseNr+1; (* Program case *)

        (* ------------------------------------------------------------ *)
        (* Acquisisco i caratteri ricevuti, la stringa termina con <CR>. *)

        1:
        WHILE (SysGetIChars(Fp) > 0) DO
            i:=Sysfgetc(Fp); (* Acquisisco il carattere *)

            (* Controllo se <CR> fine stringa o se superato lunghezza. *)

```

```
            IF (i = 16#0D) THEN Ptr^:=0; CaseNr:=CaseNr+1; RETURN; END_IF;
            IF (RxChars >= SIZEOF(RxString)) THEN CaseNr:=0; RETURN; END_IF;

            (* Trasferisco carattere in buffer ricezione. *)

            Ptr^:=INT_TO_USINT(i);
            Ptr:=Ptr+1; (* Auxiliary pointer *)
        END_WHILE;

        (* ---------------------------------------------------------------- *)
        (* Arrivo con la stringa "Peso:120.5 Kg" catturata dalla pesa. *)

        2:
        SysVarsscanf(ADR(RxString), 'Peso:%f', REAL_TYPE, ADR(Weight));
        CaseNr:=0; (* Program case *)
    END_CASE;

(* [End of file] *)
```