with Interfaces; use Interfaces;

-- Low-level LCD commands.

package NXT.LCD is

  -- Viewable pixels.
  subtype Pixel_Columns is Natural range 0 .. 99;
  subtype Pixel_Rows is Natural range 0 .. 7;
  -- 0,0 is upper left; 99,7 is lower right
  type LCD_Line is array (Pixel_Columns range <>) of Unsigned_8;

  -- Raw number of columns and pages.
  subtype Raw_Columns is Natural range 0 .. 255;
  subtype Raw_Pages is Natural range 0 .. 15;

  procedure Command (Cmd : Unsigned_8);
  -- Send a command to the lcd.

  procedure Write (Page : Raw_Pages; Start : Raw_Columns; Graph : LCD_line);

  procedure Set_All_Pixels_On (On : Boolean);
  procedure Set_Inverse_Display (On : Boolean);
  -- High level commands.

  procedure Power_On;
  -- Power up and initialize LCD.

end NXT.LCD;