

Practice Problem (Application of Microcontrollers)

LED light intensity control

Develop an MCU program. The control program reads out the voltage value on big breadboard potentiometer. The read out voltage value determines the LED light intensity. Number of light intensity steps is 5. The LED may be also switched ON/OFF with delay both with pushbuttons or with Terminal commands. Times of delay: ON – 2 s, OFF – 5 s. Percentage value of LED light intensity and its status (ON/OFF) should be displayed on the LCD and should be sent to the Terminal program.