

IQ TESTER

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ABSTRACT

This device can test your IQ. It is a microcontroller-based device. It is a simple device for testing IQ but it is complex for the utilization of microcontroller. My project uses the PIC16F84 microcontroller instead of 16C54-4 because PIC16F84 is EEPROM microcontroller.

The IQ tester contains hardware part and software part. Hardware includes 7-segmetns, LED lines, push buttons, RC oscillator and resistors. Even through the hardware components look very simple, it is not easy for writing a program to control the procedure of testing IQ. I will explain each step-by-step groups of several instruction set of specific function. For example: delay, Display Score and Increment Score subroutine.