Programs

* Write an 8051 C program to send values 00-FF to port P1.
* Write an 8051 C program to send hex values for ASCII characters of 0, 1, 2, 3, 4, 5, A, B, C and D to port P1.
* Write an 8051 C program to toggle all the bits continuosly.
* Write an 8051 C program to toggle bit D0 of the port P1(P1.0) 50,000 times.
* Write an 8051 C program to toggle bits of P1 continuously forever with some delay.
* Write an 8051 C program to toggle all the bits of P0 & P2 continuously with a 250ms.
* Write an 8051 C program to get a byte of data from P1, wait ½ sec and then send it to P2.
* Write an 8051 C program to get a byte of data from P0. If less than 100, send it to P1 otherwise send it to P2.
* Write an 8051 C program to toggle only bit P2.4 continuosly without disturbing the rest of bits of P2.
* Write an 8051 C program to monitor bit P1.5. if it is high, send 55H to P0; otherwise send AAH to P2.
* A door sensor is connected to the P1.1 pin, and a buzzer is connected to P1.7. Write an 8051 C program to monitor door sensor, and when it opens, sound the buzzer. You can sound the buzzer by sending a square wave of a few hundred hertz.
* The data pins of an LCD are connected to P1. The information is latched into the LCD whenever its enable pin goes from high to low. Write an 8051 C program to send “ The Earth is but One country” to this LCD.
* Write an 8051 C program to get the status of bit P1.0, save it, and send it to P2.7 continuously.
* Write an 8051 C program to toggle all the bits of P0 and P2 continuously with a 250 ms delay. Use the inverting operator.
* Write an 8051 C program to toggle all the bits of P0, P1 and P2 continuously with a 250 ms delay. Use the XOR operator.