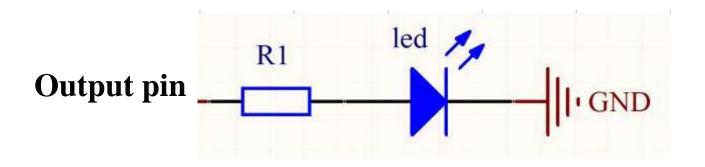
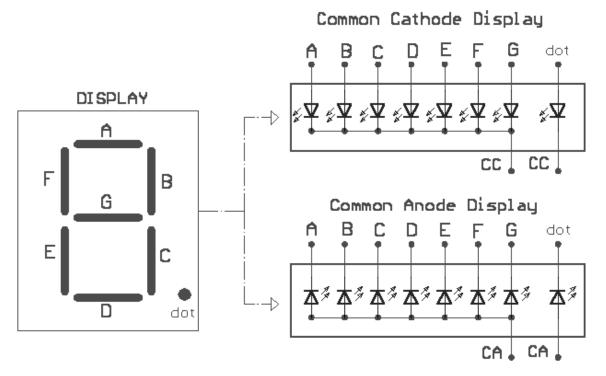
7-Segment Light-Emitting Diode (LED)



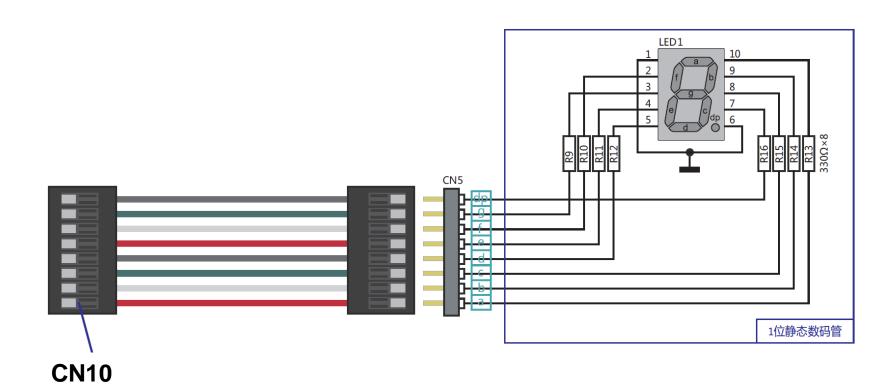
- an LED can illuminate when it is forward biased and has sufficient current flowing through it
- when configure for output, PIC18 I/O port pin can drive an LED directly (R1 is about 300Ω to 500Ω)
- 7-segment LED can be used to display decimal digit or letter



Common Anode/Cathode DISPLAY

- the development kit uses common cathode display
- a high voltage, i.e. I/O pin outputs "1", lights up the segment

Hardware Configuration



Program to display digit "0"

LIST	P=18F4520 #include <p18f4520.inc></p18f4520.inc>			;directive to define processor ;CPU specific variable definitions
;Configuration bits definitions				
;	(CONFIG CONFIG CONFIG	OSC = XT WDT = OFI LVP = OFF	F
;;Reset vecto				
,	(ORG goto	0x0000 Main	;code origin, program starts from here
Main:	1 1	ORG movlw movwf clrf clrf	0x0100 0x0F ADCON1 TRISC PORTC	;Set Port C direction output
Loop:]	movlw movwf goto END	0x3F PORTC Loop	;Display '0'

Answer Questions 5 and 6