

PIC Assembly Code Examples



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Here are some PIC assembly codes I have compiled over the years. If you'd like some explanation over how these codes work, check out my [tutorials page](#).

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Beginner:

[Blink One LED:](#)

Toggle the state of RB0.

1
2
3
4
5
6
7
8
9
A
B
C
D
E
F

F
f
• R
r
P

P
C
R
N

```
1136 P-TUTORIALS  
include  
COUNT1 EQU 08h  
COUNT2 EQU 09h  
  
org 0x00  
goto start  
  
start bsf STATUS, RP0 ;bank 1  
movlw 0xFE  
movwf TRISB ;set all PORTB input except for RB0  
bcf STATUS, RP0 ;bank 0  
  
main bsf PORTB, 0 ;make RB0 high  
call delay ;delay subroutine  
bcf PORTB, 0 ;make RB0 low  
goto main  
  
delay  
loop1 decfsz COUNT1,1 ;decrement COUNT1 variable until zero  
goto loop1  
decfsz COUNT2,1 ;decrement COUNT2, if not zero, go back to loop1  
goto loop1  
return  
end
```

Blink All LED:

All pins of PORTB simultaneously turns on and then turns off on a loop.

```
include
```

```
COUNT1 EQU 08h
```

```
COUNT2 EQU 09h
```

```
org 0x00
```

```
start
```

```
    start bsf STATUS, RP0 ;bank 1
```

```
    movlw 0x00
```

```
    movwf TRISB ;make all PORTB output
```

```
    bsf STATUS, RP1 ;bank 0
```

```
main movlw 0xFF
```

```
    movwf PORTB ;make all PORTB pins high
```

```
    call delay ;delay subroutine
```

```
    movlw 0x00
```

```
    movwf PORTB ;make all PORTB pins low
```

```
    call delay
```

```
    goto main
```

```
delay
```

```
    loop1 decfsz COUNT1,1 ;decrement COUNT1 variable until zero
```

```
    goto loop1
```

```
    decfsz COUNT2,1 ;decrement COUNT2, if not zero, go back to loop1
```

```
    goto loop1
```

```
    return
```

```
end
```

Using a Switch:

A switch is connected normally high at RA0. If the switch is pressed, RB0 is pulled low, otherwise, RB0 stays high.

1150 P-101040

include

COUNT1 EQU 08h

COUNT2 EQU 09h

org 0x00

start

start bsf STATUS,RP0 ;bank 1

movlw 0x01

movwf TRISA ;make all PORTA output except RA0

movlw 0x00

movwf TRISB ;make all PORTB output

bcf STATUS,RP0 ;bank 0

main btfss PORTA,0 ;check RA0 if high, if it is, skip the next line

goto sub1 ;program goes here if RA0 is low

bcf PORTB,0 ;program goes here if RA0 is high; make RB0 low

call delay ;delay subroutine

goto main

sub1 bsf PORTB,0 ;make RB0 high

call delay

goto main

delay

loop1 decfsz COUNT1,1 ;decrement COUNT1 variable until zero

goto loop1

decfsz COUNT2,1 ;decrement COUNT2, if not zero, go back to loop1

goto loop1

return

end

Count Button Press (w/ Seven Segment Display):

Display on a common cathode seven segment display (with decoder connected to PORTB) the number of button presses on RA0. If the number of presses exceeds nine, the counter goes back to zero.

1150 P-101044

include

org 0x00

goto start

start bsf STATUS, 5 ;goto bank 1

movlw 0x00 ;clear TRISB - set all PORTB as output

movwf TRISB

movlw 0x1F ;set all PORTA as input

movwf TRISA

bcf STATUS, 5 ;goto bank 0

clrf PORTB ;initialize PORTB to 0

main btfsc PORTA,0 ;check if RA.0 button is pressed

call delay ;for debounce

call delay

call delay

btfsc PORTA,0 ;check again

goto main ;if not pressed, go back to main

incf PORTB,1 ;if pressed increment PORTB

movlw 0x09 ;for checking if PORTB = 9: put 0x09 to W

subwf PORTB,0 ;subtract 0x09 from W register

btfsb STATUS, 2 ;check if zero was the result of the last operation

goto main ;if not zero (PORTB is not equal to 0x09), go back to main

clrf PORTB ;if zero (PORTB is equal to 0x09), set PORTB to zero

goto main ;go back and check the button again

delay

loop1 decfsz COUNT1,1 ;decrement COUNT1 variable until zero

goto loop1

decfsz COUNT2,1 ;decrement COUNT2, if not zero, go back to loop1

goto loop1

return

end

Intermediate:

Timer Interrupt:

Strobe lights from RB7 to RB0 and back using timer overflow interrupt.

```
115C P-10104a

include

cblock 0x0c
COUNT1
COUNT2
endc

org 0x00
goto start
org 0x04
goto isr

start bsf STATUS, RP0 ;switch to Bank 1
movlw 0x00
movwf TRISA ;PORTA all output
movlw 0x00
movwf TRISB ;PORTB all output
movlw 07h
movwf OPTION_REG ;Prescaler set to maximum
bcf STATUS, RP0 ;switch to Bank 0
bsf INTCON,GIE ;Enable all interrupts
bsf INTCON,T0IE ;Enable timer overflow interrupt
movlw 0x80
movwf PORTB
goto main

;-----interrupt handler
isr
bcf INTCON,GIE ;Disable interrupt inside handler
rrf PORTB ;Complement PORTA
call delay ;Delay subroutine
bcf INTCON,T0IF ;Clear TMR overflow bit
bsf INTCON,GIE ;Re-enable interrupts
retfie ;Return from interrupt

;-----main routine
main movf PORTA,1 ;Dummy commands
clr PORTA
goto main

;-----delay subroutine
delay
loop1 decfsz COUNT1,1
goto loop1
```

```
setup ()
```

```
    return
```

```
end
```

RBO Interrupt:

Turn off blinking when RB0 is pressed.

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```
115c p-10104a
```

```
include
```

```
cblock 0x0c
```

```
COUNT1
```

```
COUNT2
```

```
endc
```

```
org 0x00
```

```
goto start
```

```
org 0x04
```

```
goto isr
```

```
start bsf STATUS, RP0 ;bank 1
```

```
movlw 0x00
```

```
movwf TRISA ;make all PORTA output
```

```
movlw 0x01
```

```
movwf TRISB ;make all PORTB output except RB0
```

```
bcf STATUS, RP0 ;bank 0
```

```
movlw b'10010000'
```

```
movwf INTCON ;enable GIE, INTE
```

```
goto main
```

```
;-----interrupt handler
```

```
isr
```

```
bcf INTCON, GIE ;disable all interrupt inside handler
```

```
bcf PORTA,0 ;make RA0 low
```

```
call delay ;multiple calls to delay for longer pause
```

```
call delay
```

```
call delay
```

```
bcf INTCON,INTF ;clear the interrupt flag
```

```
bsf INTCON, GIE ;enable interrupt
```

```
goto main
```

```
;-----main routine
```

```
main call delay
```

```
bsf PORTA,0 ;make RA0 high
```

```
call delay
```

```
bcf PORTA,0 ;make RA0 low
```

```
call delay
```

```
goto main
```

```
;-----delay subroutine
```

```
delay
```

```
loop1 decfsz COUNT1,1
```

```
    uC152_COUNT2,+
```

```
    goto loop1
    return
    end
```



RB Change Interrupt:

Similar to the code above except interrupt is triggered when changes to RB4, RB5, RB6 or RB7 is made.



1150_P-10104a

include

cblock 0x0c

COUNT1

COUNT2

endc

org 0x00

goto start

org 0x04

goto isr

start bsf STATUS, RP0 ;bank 1

movlw 0x00

movwf TRISA ;make all PORTA output

movlw 0x01

movwf TRISB ;make all PORTB output except RB0

bcf STATUS, RP0 ;bank 0

movlw b'10001000'

movwf INTCON ;enable GIE, RBIE

goto main

;-----interrupt handler

isr

bcf INTCON, GIE ;disable all interrupt inside handler

bcf PORTA,0 ;make RA0 low

call delay ;multiple calls to delay for longer pause

call delay

call delay

bcf INTCON, RBIF ;clear the interrupt flag

bsf INTCON, GIE ;enable interrupt

goto main

;-----main routine

main call delay

bsf PORTA,0 ;make RA0 high

call delay

bcf PORTA,0 ;make RA0 low

call delay

goto main

;-----delay subroutine

delay

loop1 decfsz COUNT1,1

ACCES COUNTS, +

```
goto loop1  
return  
end
```

EEPROM Write Interrupt:

Triggers an interrupt when the data to EEPROM has been written.

```
1136_P-16F628A
```

```
include
```

```
org 0x00
goto start
org 0x04
goto isr

start bsf STATUS, RP0 ; Bank 1
clrf TRISA
bsf EECON1, WREN ; Enable Write
; this is a required sequence according to the datasheet
movlw 55h
movwf EECON2 ; Write 55h
movlw AAh ;
movwf EECON2 ; Write AAh
bsf EECON1,WR ; Set WR bit
; end of required sequence
bcf STATUS, RP0 ; Bank 0
bcf PORTA,0 ;clear RA0
movlw 0FFh ;write 0FFh to EEDATA
movwf EEDATA
movlw b'11000000' ;enable EEPROM write interrupt
movwf INTCON
goto main

;-----interrupt handler
isr
bcf INTCON, GIE
bcf INTCON, EEIE
bsf PORTA,0
bsf INTCON, EEIE
bsf INTCON, GIE
goto start
end
```

PWM:

Generate hardware PWM at RB3 using PIC16F628A.

115C P-T101-U20A

include

cblock 0x20

COUNT1

COUNT2

endc

org 0x00

goto init

init movlw .50

movwf COUNT1

movwf COUNT2

;-----SET PWM FREQUENCY

bsf STATUS, RP0 ;Bank 1

movlw D'128' ;Set PR2 to 128 decimal; PWM period = 2064uS => PWM frequency = 484Hz

movwf PR2

bcf STATUS, RP1 ;Bank 0

clrf CCPR1L ;Set PWM starting duty cycle

comf CCPR1L

movlw B'00001100' ;Set PWM mode, bits 5 and 4 are the two LSBs of the 10-bit duty cycle

register

movwf CCP1CON ;SET PWM PIN TO OUTPUT MODE;;;

bsf STATUS, RP0 ;Bank 1

bcf TRISB, 3 ;Set RB3 as output for PWM

bcf STATUS, RP0 ;Bank 0

movlw B'00000010' ;Set Timer2 prescale value to 16 so the PWM period = 2064uS => PWM

frequency = 484Hz

movwf T2CON

clrf TMR2 ;clear Timer2 module

bsf T2CON, TMR2ON ;enable Timer2 module

main call delay

goto main

delay

loop1 decfsz COUNT1,1

goto loop1

decfsz COUNT2,1

goto loop1

return

end



USART Communication:

Send "!" character to serial port.

```
1150 p - 101020A
```

```
INCLUDE
```

```
cblock 0x20
char0
COUNT1
COUNT2
endc

org 0x00
goto init

init clrf PORTB
clrf PORTA
bsf STATUS, RP0 ;bank 1
clrf TRISB ;all PORTB pins are output
movlw 01h
movwf TRISA ;make all PORTA pins output except RA0
movlw 07h
movwf CMCON ;disable comparator modules
;---CONFIGURE SPBRG FOR DESIRED BAUD RATE
movlw D'25' ;baud rate = 9600bps
movwf SPBRG ;at 4MHZ
;---CONFIGURE TXSTA
movlw B'00100100'
movwf TXSTA
;Configures TXSTA as 8 bit transmission, transmit enabled, async mode, high speed baud
rate
bcf STATUS, RP0 ;bank 0
movlw B'10000000'
movwf RCSTA ;enable serial port receive
movlw 0x21
movwf char0 ;put ! (ascii code 21) character to char0 register

main btfsc PORTA, 0 ;check if button at RA0 is pressed
goto main ;if not, wait
;else transmit a byte
movf char0, W
movwf TXREG ;place the ! character to TXREG
goto wthere
call delay
goto main

wthere btfss TXSTA, TRMT ;check if TRMT is empty
goto wthere ;if not, check again
```

```
delay  
loop1 decfsz COUNT1,1  
goto loop1  
decfsz COUNT2,1  
goto loop1  
return  
end
```

USART - Display a Rabbit:

1150 p - 101020A

INCLUDE

```
cblock 0x20
charOpPa
charClPa
charBlash
charSlash
charUnSc
charEq
charSQ
charDQ
charPrd
spc
lf
COUNT1
COUNT2
endc

org 0x00
goto init

init clrf PORTB
clrf PORTA
bsf STATUS, RP0 ;bank 1
clrf TRISB ;all PORTB pins are output
movlw 01h
movwf TRISA ;make all PORTA pins output except RA0
movlw 07h
movwf CMCON ;disable comparator modules
;---CONFIGURE SPBRG FOR DESIRED BAUD RATE
movlw D'25' ;baud rate = 9600bps
movwf SPBRG ;at 4MHZ
;---CONFIGURE TXSTA
movlw B'00100100'
movwf TXSTA
;Configures TXSTA as 8 bit transmission, transmit enabled, async mode, high speed baud
rate
bcf STATUS, RP0 ;bank 0
movlw B'10000000'
movwf RCSTA ;enable serial port receive
movlw .40 ;(
movwf charOpPa
movlw .41 ;)
movwf charClPa
```

```
movwf charBlash
```

```
movlw .47 ;/
```

```
movwf charSlash
```

```
movlw .95 ;_
```

```
movwf charUnSc
```

```
movlw .61 ;=
```

```
movwf charEq
```

```
movlw .39 ;'
```

```
movwf charSQ
```

```
movlw .34
```

```
movwf charDQ
```

```
movlw .46 ;.
```

```
movwf charPrd
```

```
movlw .32
```

```
movwf spc
```

```
movlw .13
```

```
movwf lf
```

```
main btfsc PORTA, 0 ;check if button at RA0 is pressed
```

```
goto main ;if not, wait
```

```
;else transmit a byte
```

```
;-----line1
```

```
movf spc, W
```

```
movwf TXREG ;TO TXREG
```

```
call wthere
```

```
movf spc, W
```

```
movwf TXREG ;TO TXREG
```

```
call wthere
```

```
movf charOpPa, W
```

```
movwf TXREG ;TO TXREG
```

```
call wthere
```

```
movf charBlash, W
```

```
movwf TXREG ;TO TXREG
```

```
call wthere
```

```
movf charUnSc, W
```

```
movwf TXREG ;TO TXREG
```

```
call wthere
```

```
movf charUnSc, W
```

```
movwf TXREG ;TO TXREG
```

```
call wthere
```

```
movf charUnSc, W
```

```
movwf TXREG ;TO TXREG
```

```
call wthere
```

```
movf charSlash, W
```

```
movwf TXREG ;TO TXREG
```

```
movwf charClPa, w
movwf TXREG
call wthere
movf lf, w ;line feed
movwf TXREG ;TO TXREG
call wthere
;-----line2
movf spc, w
movwf TXREG ;TO TXREG
call wthere
movf spc, w
movwf TXREG ;TO TXREG
call wthere
movf charOpPa, w
movwf TXREG ;TO TXREG
call wthere
movf charEq, w
movwf TXREG ;TO TXREG
call wthere
movf charSQ, w
movwf TXREG ;TO TXREG
call wthere
movf charPrd, w
movwf TXREG ;TO TXREG
call wthere
movf charSQ, w
movwf TXREG ;TO TXREG
call wthere
movf charEq, w
movwf TXREG ;TO TXREG
call wthere
movf charClPa, w
movwf TXREG
call wthere
movlw .13 ;line feed
movwf TXREG ;TO TXREG
call wthere
;-----line3
movf spc, w
movwf TXREG ;TO TXREG
call wthere
movf spc, w
movwf TXREG ;TO TXREG
call wthere
movf charOpPa, w
```

```
call wthere  
  
    movf charDQ, W  
    movwf TXREG ;TO TXREG  
    call wthere  
  
    movf charClPa, W  
    movwf TXREG ;TO TXREG  
    call wthere  
  
    movf charUnSc, W  
    movwf TXREG ;TO TXREG  
    call wthere  
  
    movf charOpPa, W  
    movwf TXREG ;TO TXREG  
    call wthere  
  
    movf charDQ, W  
    movwf TXREG ;TO TXREG  
    call wthere  
  
    movf charClPa, W  
    movwf TXREG ;TO TXREG  
    call wthere  
  
    movlw .13 ;line feed  
    movwf TXREG ;TO TXREG  
    call wthere  
    call delay  
    goto last
```

```
wthere  
  
loop22 bsf STATUS,RP0  
btfs TXSTA, TRMT ;check if TRMT is empty  
goto loop22 ;if not, check again  
bcf STATUS, RP0  
return
```

```
delay  
loop1 decfsz COUNT1,1  
goto loop1  
decfsz COUNT2,1  
goto loop1  
return
```

```
last nop ;so that the display will stay  
nop  
sleep  
end
```



Q



ପ୍ରମାଣିତ ହେଲା ଯାଏ ଆମାଦିରେ କୌଣସିଲୁଗାନ୍ତିକ ହେଲା ।



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```
1136 P-101040
```

```
#include
```

```
cblock 0x0c
```

```
TEMP
```

```
TEMP2
```

```
DADDR
```

```
COUNT1
```

```
COUNT2
```

```
CHAR1
```

```
CHAR2
```

```
CHAR3
```

```
CHAR4
```

```
CHAR5
```

```
CHAR_COUNT
```

```
endc
```

```
LCD_DATA equ PORTB
```

```
#define LCD_E PORTA,2
```

```
#define LCD_RW PORTA,1
```

```
#define LCD_RS PORTA,0
```

```
org 0x00
```

```
goto init
```

```
init movlw 0x05
```

```
movwf CHAR_COUNT
```

```
movlw 0x48 ;H
```

```
movwf CHAR1
```

```
movlw 0x45 ;E
```

```
movwf CHAR2
```

```
movlw 0x4C ;L
```

```
movwf CHAR3
```

```
movlw 0x4C ;L
```

```
movwf CHAR4
```

```
movlw 0x4F ;O
```

```
movwf CHAR5
```

```
bsf STATUS, RP0
```

```
clrf TRISB
```

```
clrf TRISA
```

```
bcf STATUS, RP1
```

```
call LCD_prep
```

```
call delay
```

```
movlw 0x80
```

```
call LCD_cmd
```

```
main goto LCD_sendchr
```

```
LCD_sendchr movf CHAR1,W
call delay
call send_it
movf CHAR2,W
call delay
call send_it
movf CHAR3,W
call delay
call send_it
movf CHAR4,W
call delay
call send_it
movf CHAR5,W
call delay
call send_it
```

```
send_it call LCD_putch
call delay
decfsz CHAR_COUNT,f
return
call LCD_prep
call delay
movlw 0x80
call LCD_cmd
call delay
goto end_here
```

```
LCD_poll bsf STATUS, RP0
clrf TRISB
comf TRISB
bcf STATUS, RP0
bcf LCD_RS
bsf LCD_RW
bsf LCD_E
movf LCD_DATA, TEMP2
nop
bcf LCD_E
btfsC TEMP2,7
goto LCD_poll
bsf STATUS, RP0
clrf TRISB
bcf STATUS, RP0
```

```
LCD_Cmd movwf TEMP
call LCD_poll
bcf LCD_RS
bcf LCD_RW
bsf LCD_E
movf TEMP, W
movwf LCD_DATA
nop
bcf LCD_E
return
LCD_prep clrf PORTA
movlw 0x3C ;Configure to 2 x 40, 8-bit mode
call LCD_cmd
movlw 0x0F ;Turn on display and cursor
call LCD_cmd
movlw 0x14 ;Shift cursor right
call LCD_cmd
movlw 0x01 ;clear cursor and return to home position
call LCD_cmd
return
get_DDRAM bsf STATUS, RP0
clrf TRISB
comf TRISB
bcf STATUS, RP0
bcf LCD_RS
bsf LCD_RW
bsf LCD_E
movf LCD_DATA, W
nop
bcf LCD_E
movwf DADDR
return
LCD_putch movwf TEMP
call LCD_poll
movf TEMP,W
bsf LCD_RS
bcf LCD_RW
bsf LCD_E
movwf LCD_DATA
nop
bcf LCD_E
return
chk_0x53 movlw 0x53
subwf DADDR
btfs STATUS,Z
```

```
movlw DPORT ,SET DDPORT ADDRESS TO PORT (start of first line)

call LCD_cmd
call LCD_poll
movf TEMP,W
bsf LCD_RS
bcf LCD_RW
bsf LCD_E
movwf LCD_DATA
nop
bcf LCD_E
return
chk_0x27 movlw 0x27
subwf DADDR
btfsC STATUS,Z
return
movlw 0xD4
call LCD_cmd
call LCD_poll
movf TEMP, W
bsf LCD_RS
bcf LCD_RW
bsf LCD_E
movwf LCD_DATA
nop
bcf LCD_E
return
delay
loop1 decfsz COUNT1,1
goto loop1
decfsz COUNT2,1
goto loop1
return

end_here nop
nop
end
```

Dual Seven Segment w/ Lookup:

Uses persistence of vision (POV) to digits on a dual seven segment display.

first priority

include

cblock 0x0c

COUNT1

COUNT2

endc

org 0x00

goto start

start bsf STATUS,5

movlw 0x00

movwf TRISA

movlw 0x00

movwf TRISB

bcf STATUS,5

movlw .100

movwf COUNT1

movwf COUNT2

main movlw 0x02

movwf PORTA

movlw 0x00

call table

movwf PORTB

call delay

movlw 0x01

movwf PORTA

movlw 0x00

call table

movwf PORTB

call delay

call delay

call delay

call delay

movlw 0x02

movwf PORTA

movlw 0x00

call table

movwf PORTB

call delay

movlw 0x01

movwf PORTA

movlw 0x01

```
movwf PORTB  
call delay  
call delay  
call delay  
call delay  
movlw 0x02  
movwf PORTA  
movlw 0x00  
call table  
movwf PORTB  
call delay  
movlw 0x01  
movwf PORTA  
movlw 0x02  
call table  
movwf PORTB  
call delay  
call delay  
call delay  
call delay  
movlw 0x02  
movwf PORTA  
movlw 0x00  
call table  
movwf PORTB  
call delay  
movlw 0x01  
movwf PORTA  
movlw 0x03  
call table  
movwf PORTB  
call delay  
call delay  
call delay  
call delay  
movlw 0x02  
movwf PORTA  
movlw 0x00  
call table  
movwf PORTB  
call delay  
movlw 0x01  
movwf PORTA  
movlw 0x04  
call table
```

```
call delay
call delay
call delay
movlw 0x02
movwf PORTA
movlw 0x00
call table
movwf PORTB
call delay
movlw 0x01
movwf PORTA
movlw 0x05
call table
movwf PORTB
call delay
call delay
call delay
call delay
movlw 0x02
movwf PORTA
movlw 0x00
call table
movwf PORTB
call delay
movlw 0x01
movwf PORTA
movlw 0x06
call table
movwf PORTB
call delay
call delay
call delay
call delay
movlw 0x02
movwf PORTA
movlw 0x00
call table
movwf PORTB
call delay
movlw 0x01
movwf PORTA
movlw 0x07
call table
movwf PORTB
```

```
call delay
```

```
call delay
```

```
movlw 0x02
```

```
movwf PORTA
```

```
movlw 0x00
```

```
call table
```

```
movwf PORTB
```

```
call delay
```

```
movlw 0x01
```

```
movwf PORTA
```

```
movlw 0x08
```

```
call table
```

```
movwf PORTB
```

```
call delay
```

```
call delay
```

```
call delay
```

```
call delay
```

```
movlw 0x02
```

```
movwf PORTA
```

```
movlw 0x00
```

```
call table
```

```
movwf PORTB
```

```
call delay
```

```
movlw 0x01
```

```
movwf PORTA
```

```
movlw 0x09
```

```
call table
```

```
movwf PORTB
```

```
call delay
```

```
call delay
```

```
call delay
```

```
call delay
```

```
goto main
```

```
delay
```

```
loop1 decfsz COUNT1,1
```

```
goto loop1
```

```
decfsz COUNT2,1
```

```
goto loop1
```

```
return
```

```
table addwf PC
```

```
retlw b'00111111' ;digit 0
```

```
retlw b'00000110' ;digit 1
```

```
retlw b'01100110' ;digit 4
retlw b'01101101' ;digit 5
retlw b'01111101' ;digit 6
retlw b'00000111' ;digit 7
retlw b'01111111' ;digit 8
retlw b'01101111' ;digit 9
end
```

S

Digit 0-9

P
C
F
f
R
ri

Roland Pelayo

Roland Pelayo started TMM in 2015. He is a firmware engineer who has over ten years of experience in developing electronic and microcontroller-based systems. Roland's designs include medical devices, security and automation, robots, emergency alert systems, and educational training modules. Have something that you like Roland to write about here? or do you need consultation for microcontroller firmware projects? just contact him via the [contact page](#).

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P
C
N



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