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Submitted To

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Microprocessor and Assembly language

Experiment No 8

Question

implement a RADAR System using PIC18F452. The radar system uses a listening sensor and listens for high values from the sensor. Once it detects a high value from the sensor, it will generate a pulse with a duration of 300ms. Use XTAL=24 MHz with PIC18F452.

Code

```
LIST P=PIC18F452,F=INHX32,N=0,ST=OFF,R=HEX
#include<p18f452.inc>
config OSC=HS,OSCS=OFF,WDT=OFF,BORV=45,PWRT=ON,BOR=ON,DEBUG=OFF,LVP=OFF,STVR=OFF

ORG 0x00

MOVLW 0x04
MOVWF T0CON

BSF TRISB,0
BCF TRISD,0

AG
BTFSS PORTB,0
BRA AG

BSF PORTD,0
RCALL DELAY
BCF PORTD,0

DELAY
MOVLW 23H
MOVWF TMR0L
MOVLW 0E8H
MOVWF TMR0H
BCF INTCON, TMR0IF
BSF T0CON,TMR0ON
AGAIN
BTFSS INTCON,TMR0IF
BRA AGAIN
```

BCF T0CON,TMR0ON
RETURN

END

Output

