```
input /output
```

1) initialize ports:

moulw 0xFF (111111111B)

void __interrupt (high - priority)
empty if none

isr_name (void) {}

movuf PORTA

2 adjust analog/digital pins:

moulu Oxof (0000111118)→all digital

MOVEL ASCONI [PCFG[37, PCFG[0]]

3 clean ports

clear RBIF flog:

variable definition

mort PORTB, O read

global var 1

bet INTCON, O -> clear

varl: AS 1

interrupts

The state of the s

1) initialize ports and adjust analog /digital pins

2 enable interrupt

INTOIE / INTLIE / INTLIE / RBIE (in ADCONX)

3 disable priority IPEN (in RCON)

1 clear flag INTOIF/INTLIF/INTLIF/RBIF

(5) enable peripheral interrupts PEIE (in ADCON)

6 enable all /global interrupts GIE (in ADCON)

interrupt service routine =

check flag

if set > goto func

clear flag

retfie 1 (to get register values back)

timers

Dinitialize ports and adjust analog ldigital pins

@ enable timer interrupt TMROIE/ TMRIIE/ TMROIE

3 adjust 8-bit/16-bit and pre-post scaler TOCON/TICON/TECON

4 load TMRXH/TMRXL with desired start value

5 enable peripheral and global interrupts PEIE& GIE

6 clear flag TMROIF, TMRIIF, TMRZ IF

1) start timer TMROON, TMRION, TM2 ON

(8) interrupt Service routine = check flag

if set > clear flag an reload TMRX with desired stort value

retfie 1

4 MHz clock rate/oscillator frequency

= 1 = 1 = 1 = 1 = 1 = 1 = 1 = 1

900 ms interrupt

900 ms = 900000 Ms (micro seconds)

900000 Ms/IMS (cyle) = 900000 cycles

216 900000/16 (pre scalar) = 56250 cycles needed

(16 bit) 6553b -56250 = 928b -> load this to TMR×H and TMR×L

AND conversion

1) ADON enable

D select channel [CHSO, CHS3]

1 clear go flag

3 select analog inputs [PCFG0, PCFG3]

B ADFM→ right justified input

6 Select acquasition time

(1) isr func -> check ADIF

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