HW7

```
Chapter 10: 43,25,31,32
      File the CPU will auto clear the Town glag
     LDI PILO, 1 << INTO
    OUT GICK, RIG
     # < avr/10.6>
中
   # < avr/interupt.h>
ISR (TIMERO ONF Wect);
   ISR (TIMER2 - OUF - We(+);
    int main ()
      DDRB 0x06;
      TCNTO = - 63;
      TC(A0:0x03.
     + (CA2 = 0x03,
     +IMSK = ( / CC TOIFED) / (164 +OIFE),
     Return 0
  ISR ( TIMER 2 - OVF-VECT)
    PORTB 1-0X04;
```

Scanned with CamScanner

```
#include Zavefio.h>
#include Zavefinterupt.h>

#include Zavefinterupt.h>

TSR(TIMERO-OVF_VECH);
  int main (void)
     DDRB = OxFF;
    PORTD-OXFE;
DDRA-OXFE;
    TCCRO = 0x04;
    T CNTO = -16;
     TIMSK = (/KK TOLED);
    while(1)
     PORT = PINO;
ISP (TIMERO OVE-wect)
    TCNTO=-16;
PORTB 1-0x DAL.
```

3	Steps:
	· overflow is triggered
	- finish instruction
	Chance grown counter
	Coads vector address
	Furn of slobel intempt
	reset the triggered interupt
	· turn on global intempt
	poptue program canter to the correct location
	the last instruction is RETI and I resus
	the last instruction is RETI and I resus The interupt and return it from the ISR
	the state of the s
9-4	7002 nutor Address = 0x000A tovo vettor ODRESS =0x001A
*	Externel Interupt 1 Nector address = 0x000
	I they are typened Simontonously, it checks which
9	The interupts has the bruest vector assess and it
2	ill Service it first. TOV2V
	3 all 3 are toget @ the same time, then
green	I interptioned ber serviced first.
5 # inc	lude CAURITO his
# incl	nde Laur finderuptoh? TIMERO-DUR-vect);
tsr (TIMERO DUR wect).
intn	nain (void)
5	
DD	PB = 0×11;
	$R(=0) \times F_{F}$
DDR	$0 = 0 \times 00;$
Port	D = 0 x 00; D = 0 x = ;
PORT	D = 0 x#F;

```
T(N+0=-20)
+ C(RO = 0x02;
+ IMSK=0x01;
      PORTC = PIND;
ISP (TIMERO ONR vect)
  PORT B 1=0x0/;
T(NTO = -20;
```