

## INSTITUTO POLITÉCNICO NACIONAL

## **ESCUELA SUPERIOR DE CÓMPUTO**

## **ESCOM**

**Ejercicio 11** 

"Señales"

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Grupo:3CM15

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### **Problema**

## <mark>Código</mark>

```
> A)
        .include"m8535def.inc"
        .def aux = r16
        .def aux2 = r17
   reset:
        rjmp main
        .org $009
        rjmp onda
   main:
        Idi aux,low(RAMEND)
        out spl,aux
        ldi aux,high(RAMEND)
        out sph,aux
        rcall config_io
   fin:
        nop
        nop
        rjmp fin
  config_io:
        ser aux
        out ddra,aux
        ldi aux,1
        out tccr0,aux
        ldi aux,1
        out timsk,aux
        ldi aux2,214
        sei
        ret
   onda:
        nop
```

```
out tcnt0,aux2
in aux,pina
com aux
out porta,aux
reti
```

# .include"m8535def.inc" .def aux0 = r16 .def aux1 = r17 .def aux2 = r18

.def aux3 = r19

> ByC

#### reset:

rjmp main
.org \$008
rjmp onda1
rjmp onda2

#### main:

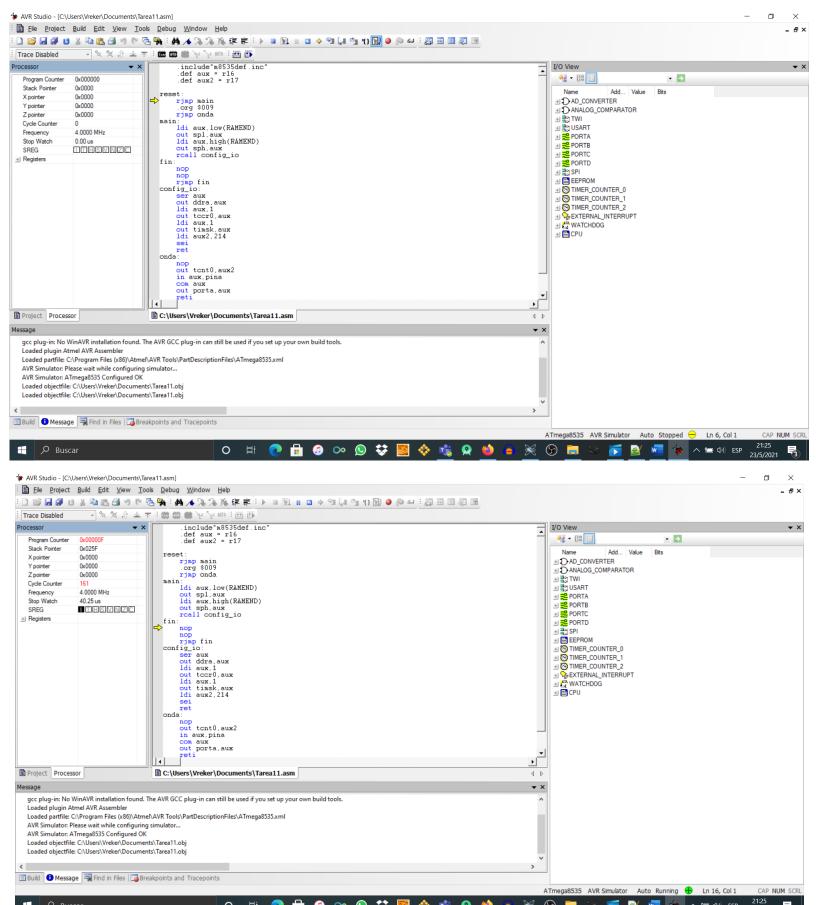
Idi aux0,low(RAMEND)
out spl,aux0
Idi aux0,high(RAMEND)
out sph,aux0
rcall config\_io

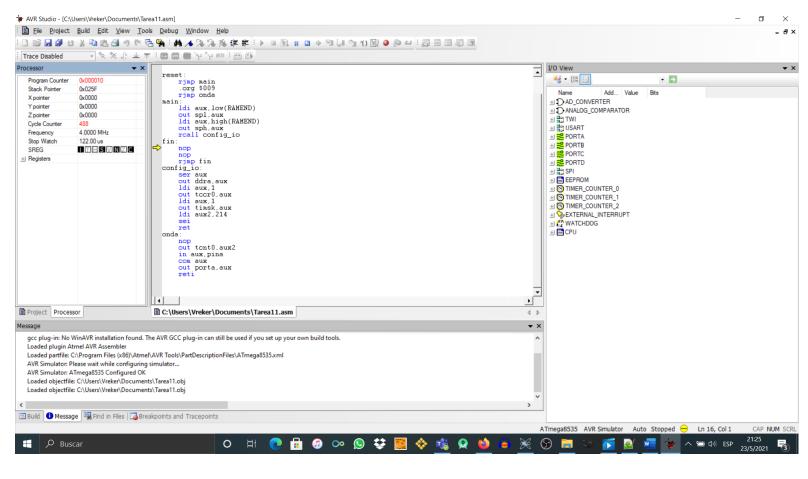
```
fin:
      nop
      nop
      rjmp fin
config_io:
      ser aux0
      out ddra,aux0
      out ddrc,aux0
      ldi aux0,1
      out tccr1b,aux0
      ldi aux0,1
      out tccr0,aux0
      ldi aux0,$65
      out timsk,aux0
      sei
      ldi aux1,$FE
      ldi aux2,245
      ldi aux3,135
      ret
onda1:
      nop
```

```
out tcnt1l,aux2
     out tcnt1h,aux1
     in aux0,pina
     com aux0
     out porta,aux0
     reti
onda2:
     nop
     nop
     out tcnt0,aux3
     in aux0,pinc
     com aux0
     out portc,aux0
     reti
```

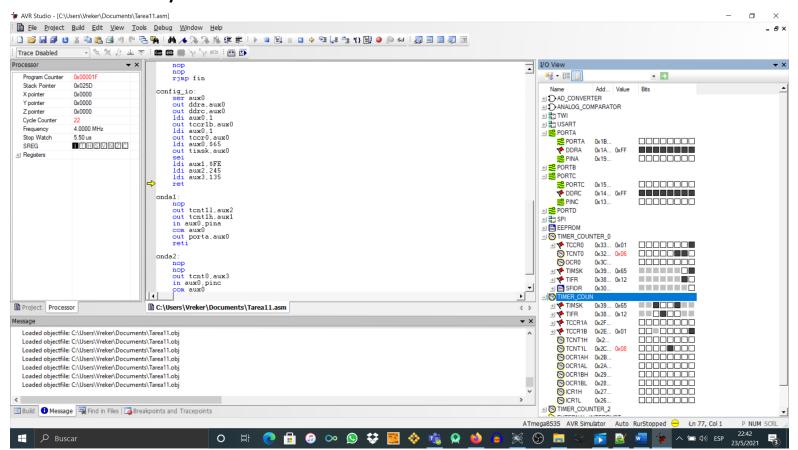
#### Simulación en AVR Studio 4

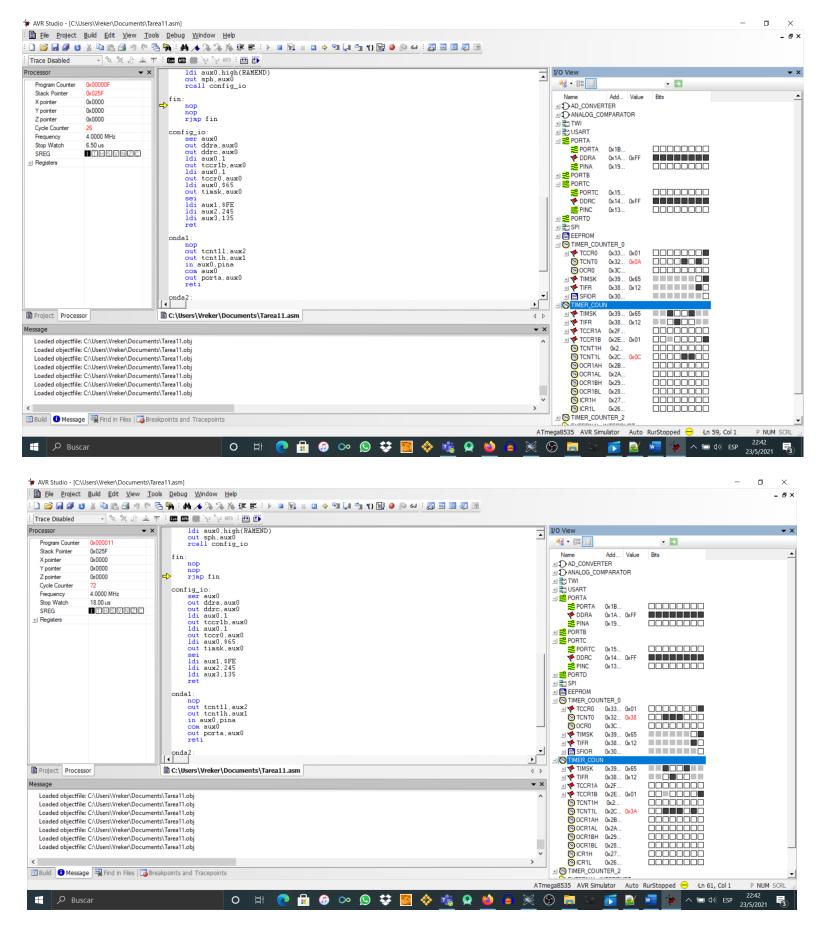
> A)

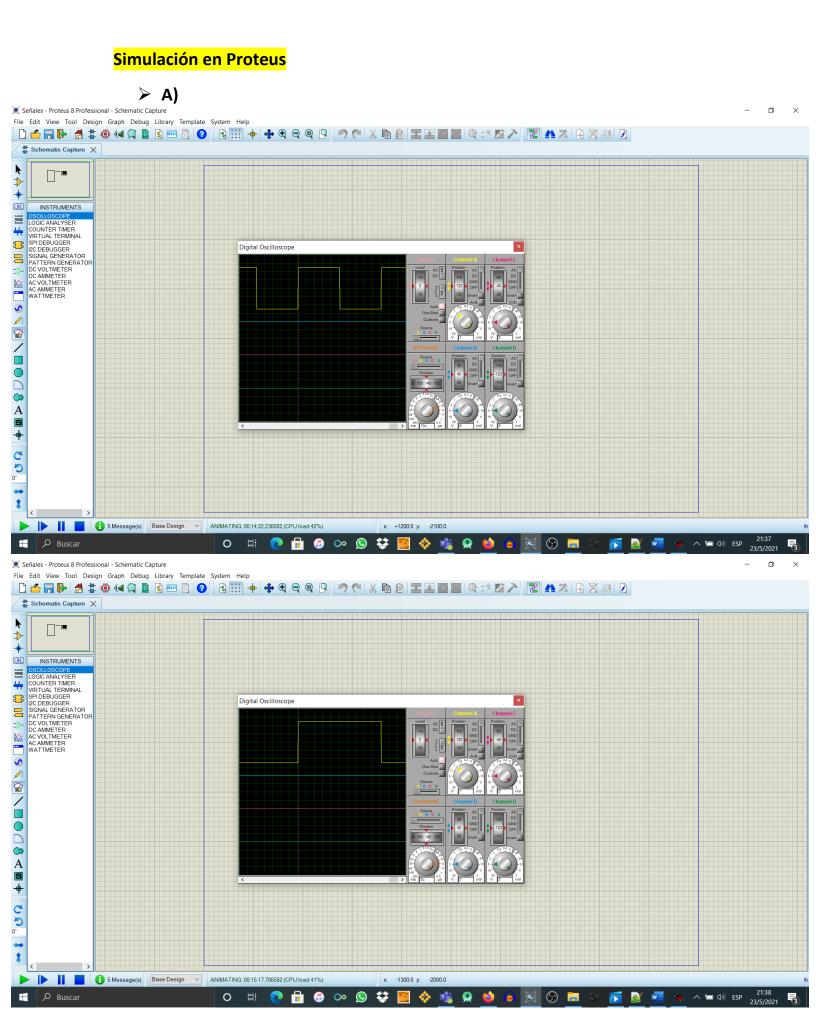




#### > ByC







## > ByC

