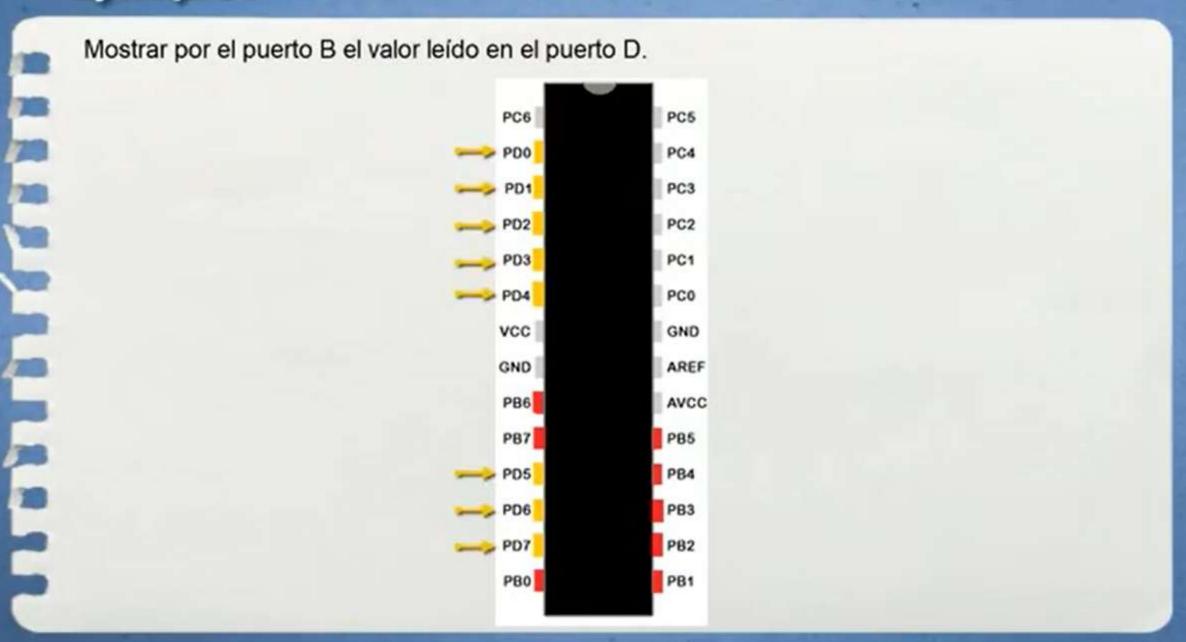
# Instituto Tecnológico de Zitácuaro

Tema 1:

Arquitectura básica de un microcontrolador

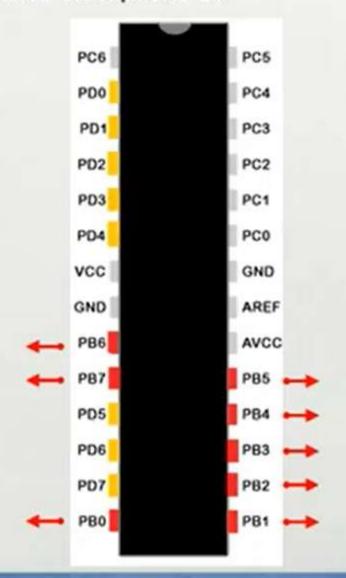
Ejercicio

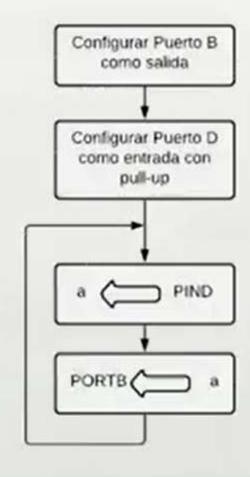
## Ejemplo:

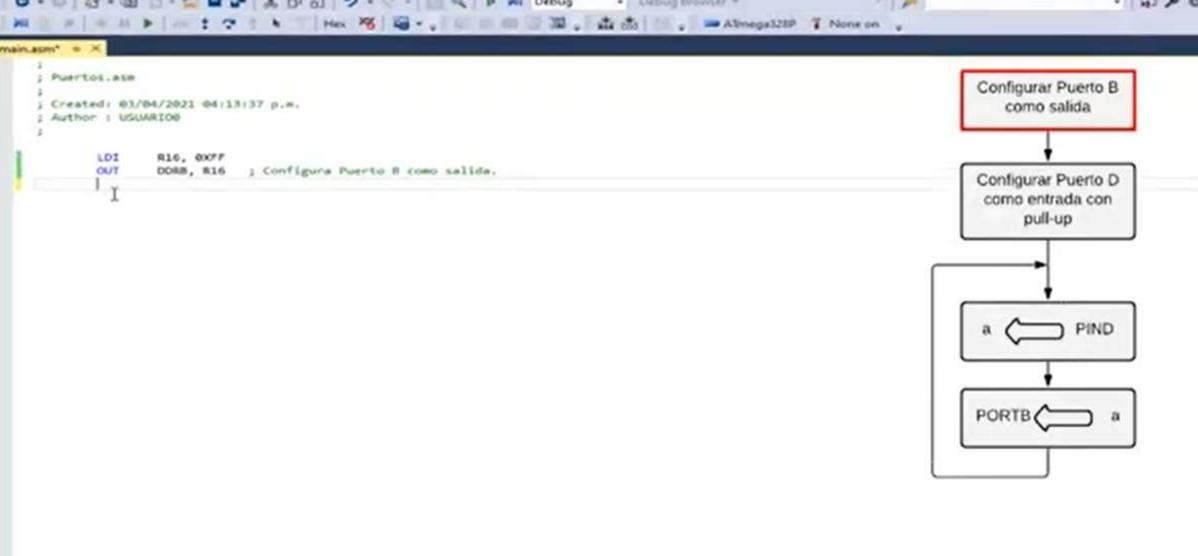


## Ejemplo:

Mostrar por el puerto B el valor leído en el puerto D.







100 % -

8:45 AM





100 % .



0X00

8:47 AM



Cargar en I/O un registro de trabajo



P, Rr

OUT

100 % - 1



8:49 AM









100 % .

8:50 AM

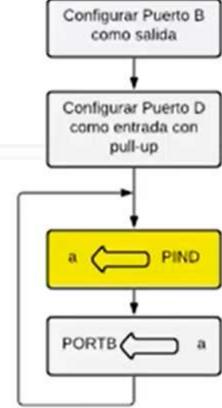


[	Mnemónico	Operandos	Descripción
	IN	Rd, P	Cargar un registro de trabajo con I/O

; Configura Puerto B como salida.

PORTD, R16 ; Activa pull-up en los pines del Puerto D.

DORD, R17 | Configura Puerto D como entrada.



R16, OXFF

DOR8, R16

R17, 00000

LDI

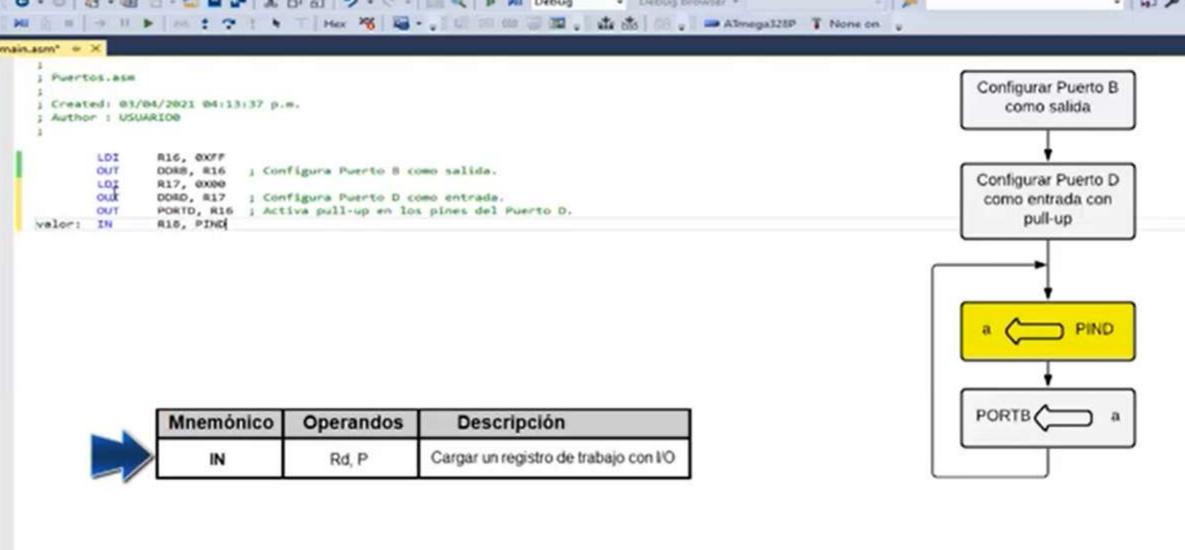
OUT

LOZ

ouk

OUT

valor: IN



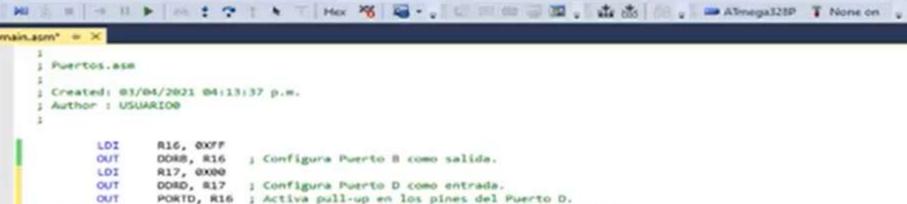


100 % - 1





100 % \* 11



O. O. O. W. D. C. . . . . . D. VII DECONDER .



100 % .

valor: IN

OUT

RIMP

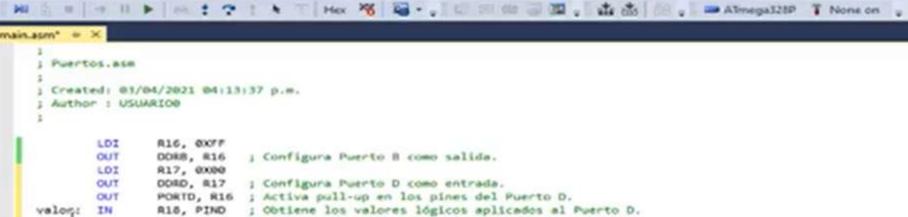
valor

Mnemónicos	Operandos	Descripción
RJMP	к	Salto relativo

RIS, PIND ; Obtiene los valores lógicos aplicados al Puerto D.

PORTB, R18 | Muestra el valor por los pines del Puerto 8.





PORTB, R18 | Muestra el valor por los pines del Puerto B.

O . O 12 . O D . T D O D O D . Decord . Decord convert .

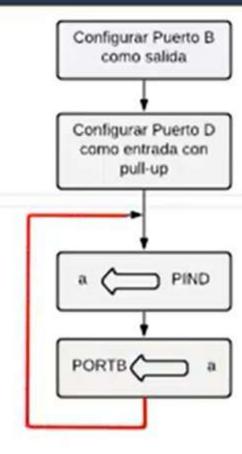


100 % .

ROMP

valor

	Mnemónicos	Operandos	Descripción
١	RJMP	К	Salto relativo



```
R 200P
                    valor
Output
Show output from: Build
        [.cseg] 0x0000000 0x000010
                                                         32768 0.0%
        [.dieg] 0x000100 0x000100
                                                         2048 0.0%
        [.eseg] 0x000000 0x000000
                                                          1024 0.0%
        Assembly complete, 0 errors. 0 warnings
    Done executing task "RunAssemblerTask".
Done building target "CoreBuild" in project "Puertos.asmproj".
Target "PostBuildEvent" skipped, due to false (ondition; ("$(PostBuildEvent)" != "') was evaluated as (" != '').
Target "Build" in file "C:\Program Files\Atmel\Studio\7.8\Vs\Avr.common.targets" from project "C:\Puertos\Puertos\Puertos\summon' (entry point):
Done building target "Build" in project "Puertos.eseproj".
Done building project "Puertos.asmproj".
Bulld succeeded.
----- Build: 1 succeeded or up-to-date, 0 failed, 0 skipped ------
Sutput
```

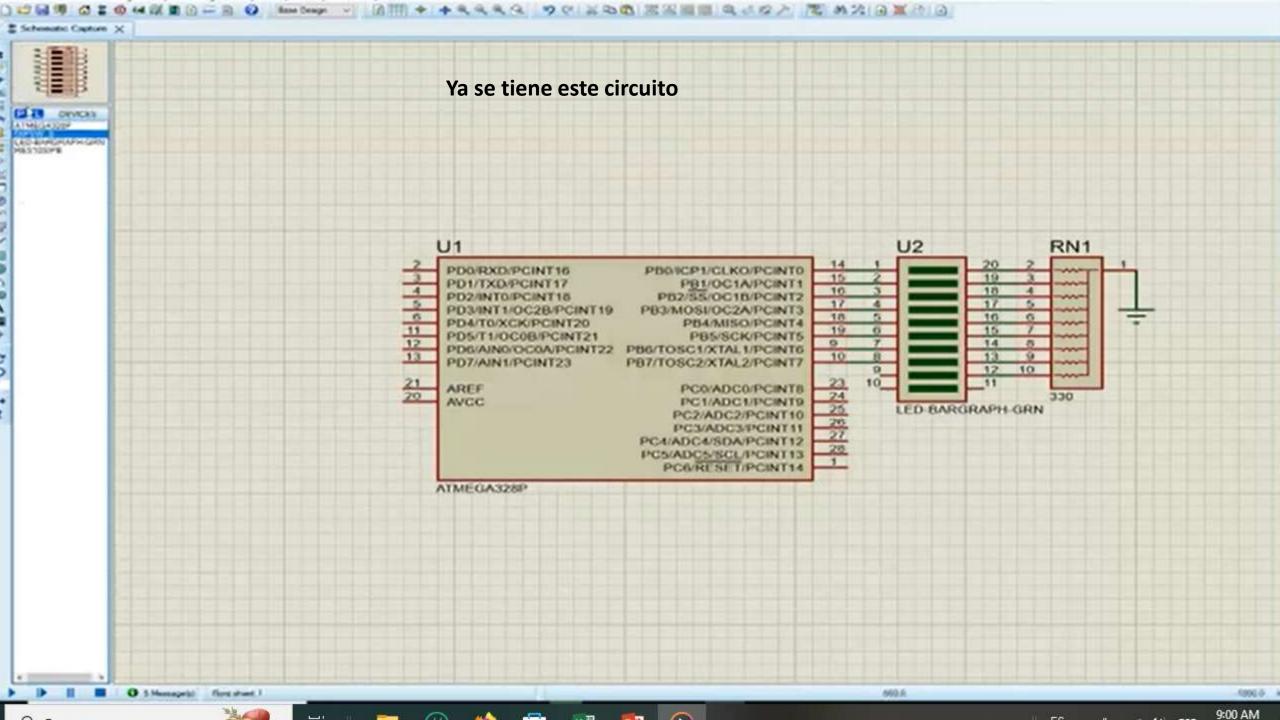
8:57 AM

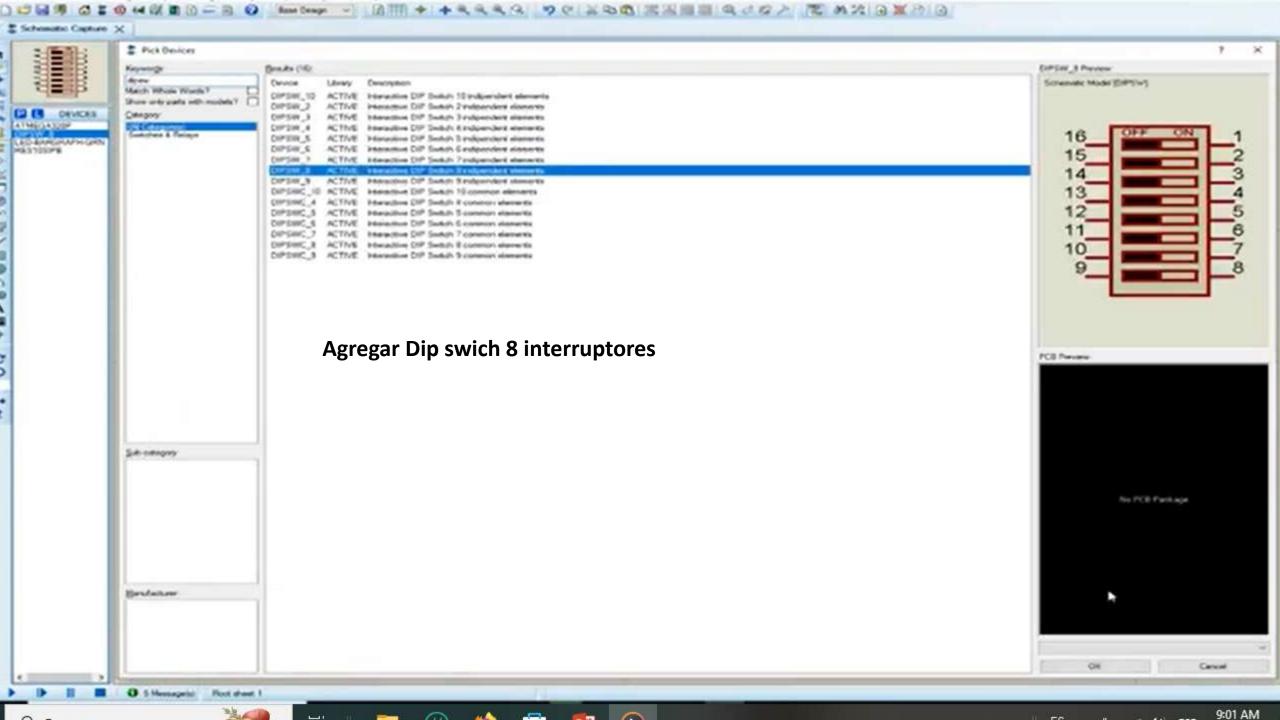
RIB, PIND ; Obtiene los valores lógicos aplicados al Puerto D.

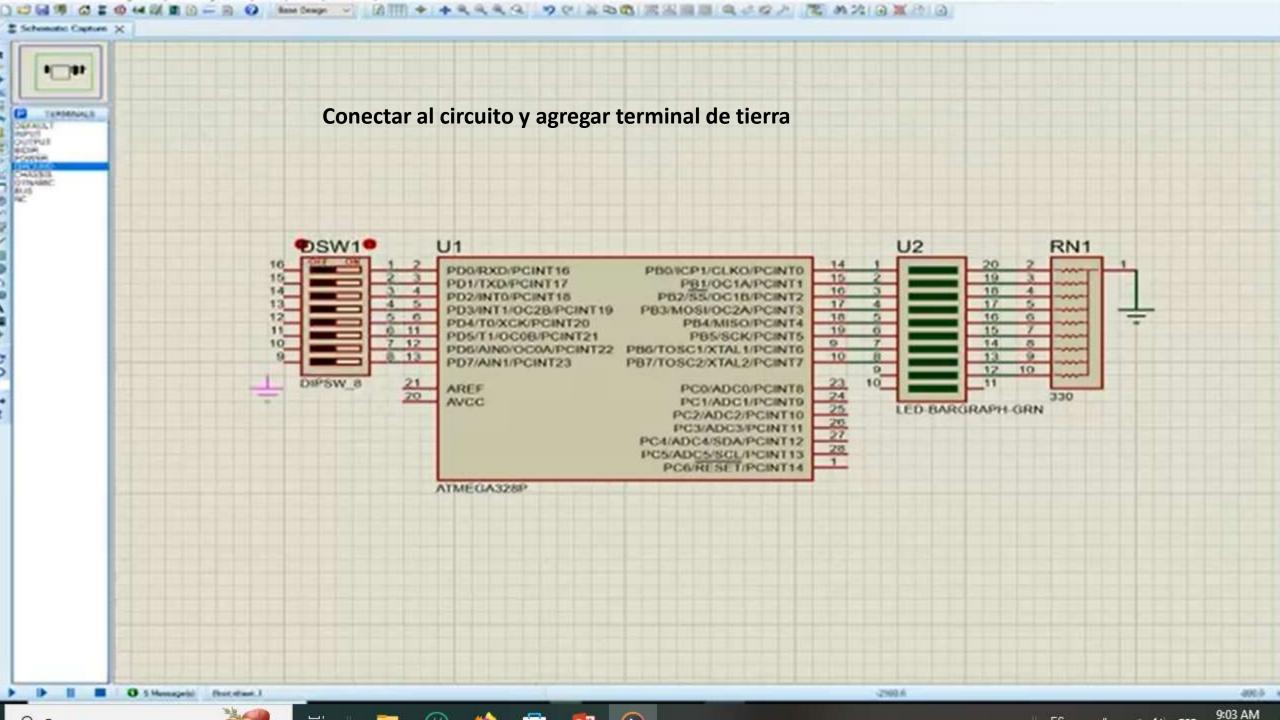
PORTB, RIS ; Muestra el valor por los pines del Puerto B.

valor: IN

OUT

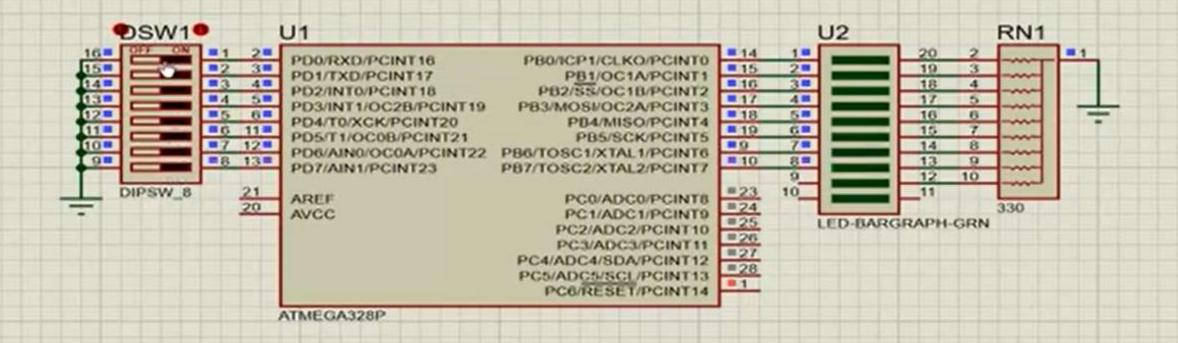








#### Cargar programa y poner en funcionamiento



9:07 AM

#### Se lee el valor que esta dando por la entrada

