ECGR 4101/5101 - Lecture 2 Chapter 1 > Mfg, example of Analog - examples - Padro, power, voltage, osc Digital - representation of pictures, 0/1, uproc Analog > continuous votage (power/voltage, light, sound)

Oizital > discrete, 0/1, or & vcc

on/off Iuput - Digital Input or Output: Port me i o Port direction Registers: data Name
St\_port 4 Control Example = what is on sd-port4?

ECGR 4101/5101 Lecture Z dota port 5t-port4 1 0 1 0 1 0 1 0 int myinput; (myinput is 170 decimal) my mp ut= (Int) 54-port 4; port direction is controlled with another register Actually in RX62N PORT D. DDR. BYTE = Ox BO; // inputs Data direction register PORT D.DDR. BIT. BO = 1; //direction = output PORTO. DR. BIT. BO = 1; // light the LED Data Register

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Actual address of	PORID. DR, PORTO. DDR
Actual address of PORID. DR, PORTO. DDR TS in an include file	
32 K Plust	1 Imag flus 4
RX62A	RX62N
PORTD = 0x0000 100E	
Include file have a mapping from ports (data regroders) to hardware addresses	
Porton SWI	OV Vcc
GND	Write the code:  1) Direction  2) Read the bit by  put into the variable
	myinput

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LECTURE 2

Answer:

int myrnput;

PORT4. DDR. BIT. BO = 1;

PORT4. DDR. BIT. BO;

myinput = (int) PORT4. DR. BIT. BO;

Port D, bito H m DGND

Write the code to:

1) Directions of everything

2) Read the botton, and if pressed, light the IED

3) Do this Forever

 4

Answer

(3)

```
PORT 4. DDR. BIT. BO = 0; // push butter = imput
PORT D. DDR. BIT. BO = 1; // LE'D = out put
While (1) \{

If (!PORT 4. \frac{DR}{DR}. BIT. BO) \quad PORT D. DR. BIT. BO = 1

else PORT D. DR. BIT. BO = 0;

3
```

