

ECE 375 Prelab 2

Lab Time: Friday 2 PM - 3:50 PM

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TA Signature

1 Questions

1. Suppose you want to configure Port B so that all 8 of its pins are configured as outputs. Which I/O register is used to make this configuration, and what 8-bit binary value must be written to configure all 8 pins as outputs?

PORTx is used to configure outputs. 11111111 is the binary value needed to configure all 8 pins as outputs.

2. Suppose all 8 of Port D's pins have been configured as inputs. Which I/O register must be used to read the current state of Port D's pins?

PINx is used to read the current state of Port D's pins.

3. Does the function of a PORTx register differ depending on the setting of its corresponding DDRx register? If so, explain any differences.

In DDRx, 1 stands for output and 0 is input, and accordingly sets the direction of the Portx.