Week 2 Quiz

1. Which Arduino function can be used to read information from a sensor?

   a) analogWrite()
   b) tone()
   c) ==digitalRead()==
   d) digitalWrite()

2. A photoresistor:

   a. changes voltage according to light level
   b. increases or decreases current through a wire
   c. stores an image
   d. ==changes resistance according to light level==

3. A voltage divider is:

   a. a component that reduces voltage by a known factor
   b. a component acts as a power supply for a number of components
   c. ==a circuit that contains resistors connected in series==
   d. the combination of a set of resistive sensors

4. True or False: a voltage-controlling sensor can be read by an Arduino using the analogRead() function.

   • ==True==
   • False

5. In order to perform On-Off actuation, the following Arduino command might be used:

   a. digitalRead()
   b. tone()
   c. ==digitalWrite()==
   d. #include

6. The function of a Digital to Analog Converter is:

   a. ==to generate an analog voltage from digital signals==
   b. to allow analog current to be controlled by a digital number
   c. to produce a waveform with an analog frequency
   d. to accept both digital and analog inputs

7. Which Arduino command is used to generate a pulse width modulated signal?

    a. analogWrite()
    b. tone()
    c. digitalRead()
    d. digitalWrite()

8. The duty cycle of a signal describes:

    a. its frequency
    b. its voltage level
    c. its peak voltage difference
    d. the fraction of time it is high