Arduino Camp Pre & Post Knowledge Survey.

Name: _____

1. Arduino is a(n) _____.
   - A. micro-processor
   - B. full computer
   - C. micro-controller
   - D. smart phone

2. An LED allows electricity to flow _____.
   - A. 1-way.
   - B. 2-ways.
   - C. 4-ways.
   - D. does not allow electricity to flow at all.

3. Between +5V and GND (0V) an LED should have a(n) _____.
   - A. motor
   - B. resistor
   - C. transistor
   - D. digitalWrite()

4. In Arduino Code (C) the correct way to declare and set an "int" variable to 2 is _____.
   - A. float 2 = x;
   - B. int x <= 2;
   - C. set int x to 2;
   - D. int x = 2;

5. The tone of the buzzer can be changed by changing the _____ of the signal.
   - A. Frequency (Hz)
   - B. analogRead()
   - C. LED
   - D. password

6. What will NOT dim an LED?
   - A. PWM (duty cycle).
   - B. photo resistor.
   - C. resistor.
   - D. amplifier.

7. What command will turn ON the LED on pin 13?

      A. digitalRead(13);

      B. digitalWrite(13, LOW);

      C. digitalWrite(13, HIGH);

      D. pinMode(13, OUTPUT)

8. How many times will this command loop before exiting?

```
int index;
for(index = 0; index <= 7; index++){
  //Do Something...
}
```

      A. 0

      B. 6

      C. 7

      D. 8

9. Delay(1000) will delay for how long?

      A. 1000 s (seconds)

      B. 1000 ms (milla-seconds)

      C. 1000 cycles

      D. 1000 Hz (Hertz)

10. What is considered an input for a circuit?

      A. LCD (Liquid Crystal Display)

      B. LED

      C. Push Button

      D. resistor