**Objective**: To become familiar with the Arduino IDE and to start writing code.

**Prelab**: No prelab for this assignment

**Part 1**: Debugged and ran the first program to get the Led light to blink ever second. Then had the lab instructor verify the program. Code is included in Appendix A.

**Part 2**: The program was changed to make a light on the circuit board to blink every three seconds while the aurdino board light blinked every one second. Code is included in Appendix B.

```
Appendix A: Code for Part 1
unsigned long LedTimer;
void setup() {
 pinMode(13, OUTPUT);
LedTimer = millis();
}
void loop() {
 if(millis() - LedTimer >= 1000 ){
  if( digitalRead(13) == HIGH ) {
   digitalWrite(13, LOW);
  else {
   digitalWrite(13, HIGH);
  LedTimer += 1000;
}
}
Appendix B: Code for Part 2
unsigned long LedTimer;
unsigned long LedTimer3;
void setup() {
 pinMode(13, OUTPUT);
 pinMode(12, OUTPUT);
 LedTimer = millis();
LedTimer3 = millis();
}
void loop() {
if(millis() - LedTimer >= 1000 ){
  if( digitalRead(13) == HIGH ) {
   digitalWrite(13, LOW);
```

}

```
else {
    digitalWrite( 13, HIGH );
}
LedTimer += 1000;
}

if(millis() - LedTimer3 >= 3000 ){
    if( digitalRead(12) == HIGH ) {
        digitalWrite( 12, LOW );
    }
    else {
        digitalWrite( 12, HIGH );
    }
    LedTimer3 += 3000;
}
```