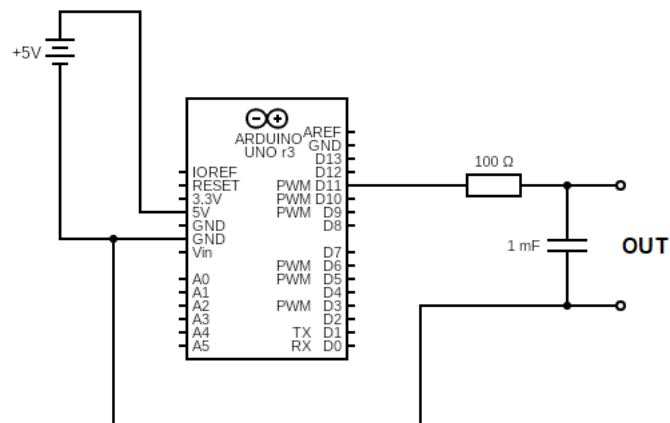**Figure S1.**

Figure S1. Electrical diagram of the Arduino Uno configuration to generate the electrical signal after deploying the code onto the board from the Arduino IDE.
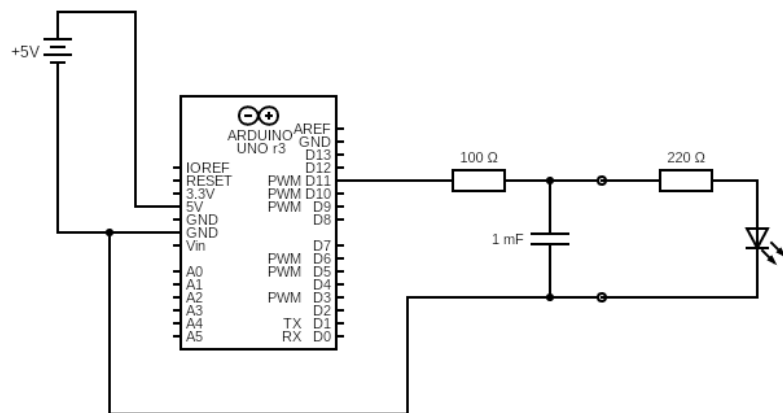
Figure S2.

Figure S2. Electrical diagram of the Arduino Uno configuration to generate the optical signal after deploying the code onto the board from the Arduino IDE.