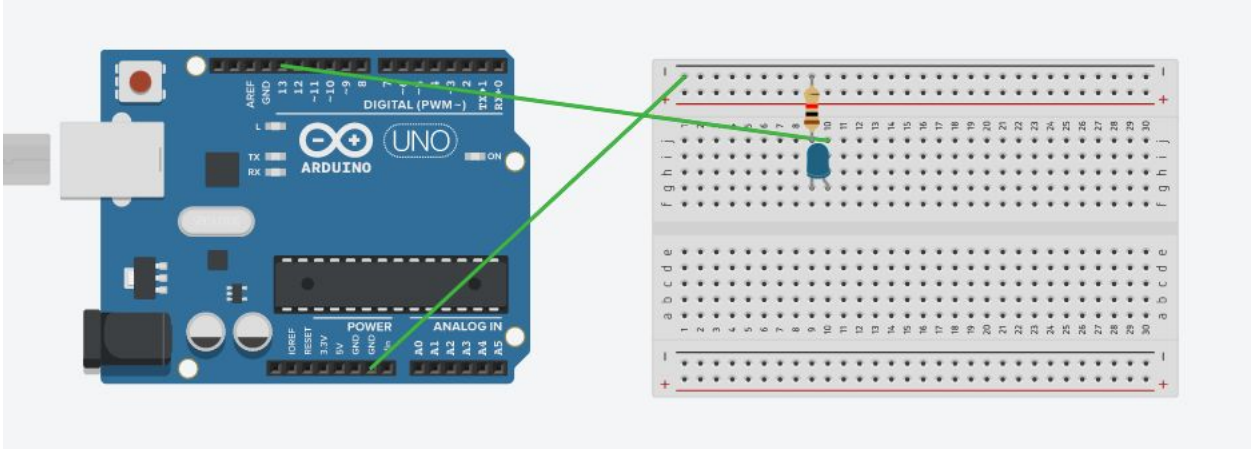
COMP 1045 LAB 1

Circuit diagram: Connect a blue LED on a bread board. Connect the anode side to port 13 on the arduino and the Cathode to the ground.



Source code: Use this code to test the above circuit.

```
int blueLED = 13;
void setup()
{
  pinMode(blueLED, OUTPUT);
}

void loop()
{
  digitalWrite(blueLED, HIGH);
  delay(1000); // Wait for 1000 millisecond(s)
  digitalWrite(blueLED, LOW);
  delay(1000); // Wait for 1000 millisecond(s)
}
```

Level 1: Modify the program to make the LED flash slow three times (1000 mS delay), then quickly three times. (100 mS delay)

Level 2: Modify the program to flash your initials using Morse code (See chart below). A “dot” would have the LED on for 100 mS and for a dash the LED would be on for 1000 mS

Level 3: Write a program that alternates between the blue LED1 and red LED2, to simulate an emergency vehicle.

Morse code: