Zine Individual Task

Task 1.3.a

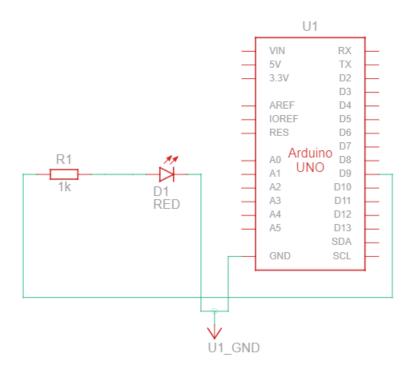
AIM

Controlling LED intensity using PWM registers directly

COMPONENTS REQUIRED

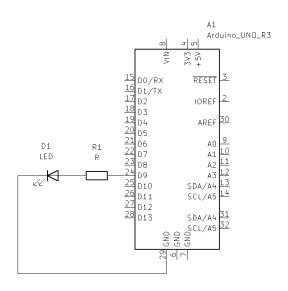
NAME	QUANTITY	COMPONENT
U1	1	Arduino Uno R3
D1	1	Red Led
R1	1	1 KΩ Resistor

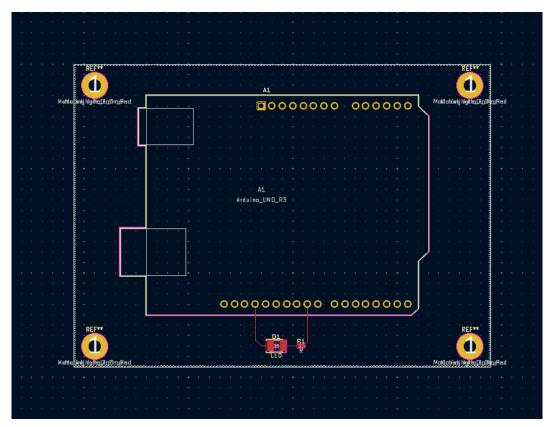
CIRCUIT DIAGRAM

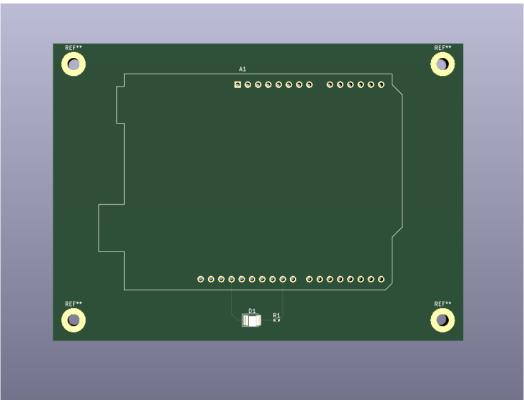


CODE

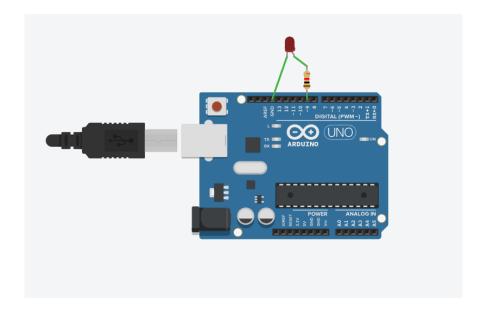
SCHEMATIC







SIMULATION



https://www.tinkercad.com/things/3TRH0tXJWtz-control-light-intesnity-using-pwm-registers/editel

RESULTS

We were able to increase and decrease the intensity of led using custom pwm signals by manipulating port registers.

BIBLIOGRAPHY

1. https://ww1.microchip.com/downloads/en/DeviceDoc/Atmel-7810-Automotive-Microcontrollers-ATmega328P Datasheet.pdf

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