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Program - 4

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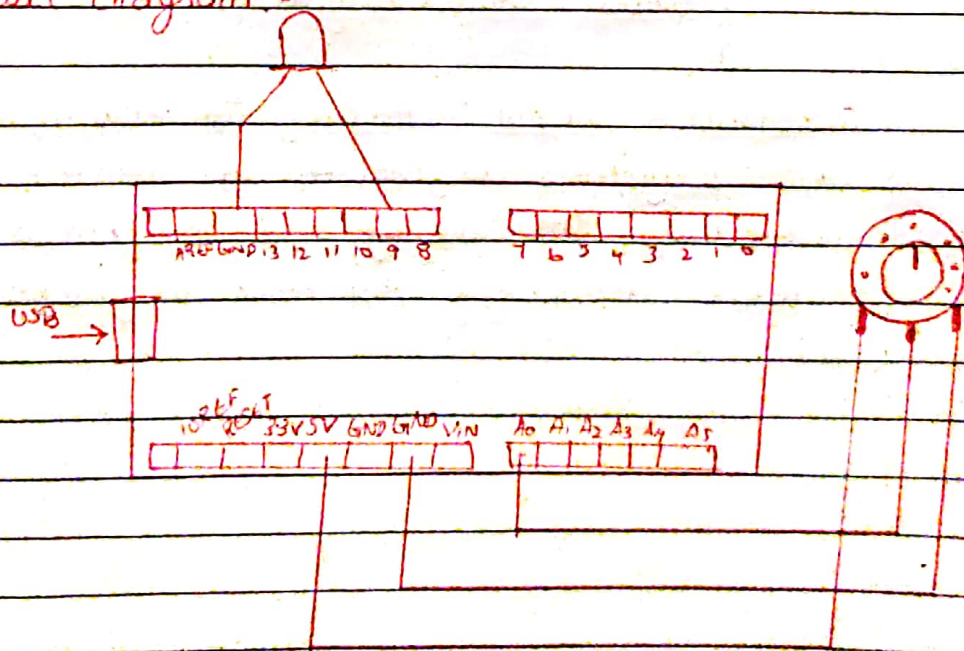
LED Fading

Aim - to demonstrate fading of LED using potentiometer

Hardware required:

- Arduino Uno board
- potentiometer
- LED
- Connecting wires

Circuit diagram:-



Code:-

void Setup()

{

Serial.begin(9600);

pinMode(9, OUTPUT);

}

void loop

{

int analog = analogRead(A0);

int bright = map(analog, 0, 1023, 0, 255);

analogWrite(9, bright);

Serial.print("In analog value");

Serial.print(analog);

Serial.print("In brightness value");

Serial.print(bright);

}

Observation/output: initially the value of analog and brightness is zero. As the potentiometer is turned up the analog and brightness values increase accordingly the max brightness value is 255.