Laboratory Activity #2:

1. Prompt used to transact with your selected Generative AI:

so we are trying to use a potentiometer since we are using map() for adjusting the brightness of our LEDs but it doesn't seem to work. what are the possible reasons for that in our code?

```
int ledPins[] = {12, 11, 10, 9, 8};
int numLeds = 5;
int potPin = A0;

void setup() {
  int i = 0;
  while (i < numLeds) {
    pinMode(ledPins[i], OUTPUT);  // Set all pins as OUTPUT
    i++;
  }
}

void loop() {
  int potValue = analogRead(potPin);
  int potMax = map(potValue, 0, 1023, 50, 255);

  int i = 0;

  // Turn ON LEDs one by one
  while (i < numLeds) {
    int brightness = 0;
    while (brightness <= potMax) {
      int mappedBrightness = map(brightness, 0, potMax, 0, 255);
      analogWrite(ledPins[i], mappedBrightness);
      delay(1);
      brightness++;
    }
    delay(1000);
    i++;
  }

  // Turn OFF LEDs one by one
  i = 0;
  while (i < numLeds) {
    int brightness = potMax;
    while (brightness >= 0) {
      int mappedBrightness = map(brightness, 0, potMax, 0, 255);
```
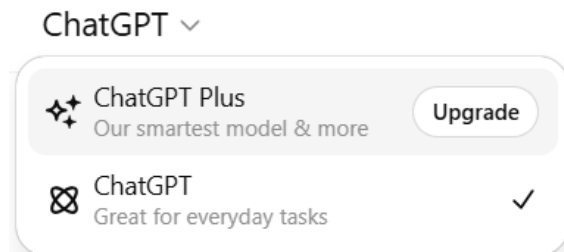
```
    analogWrite(ledPins[i], mappedBrightness);
    delay(1);
    brightness--;
  }
  delay(1000);
  i++;
 }
}
```

2. Model used to generate the content: ChatGPT (No model indicated)

3. Transaction ID or the link of the conversation:
https://chatgpt.com/share/68d36cd8-ab74-800f-a44c-72bf784c2466