

Experiment No. : 01

Statement :

Make a running light pattern of 5 LEDs. It should run in both directions continuously.

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```
// Pin numbers for the LEDs
int ledPins[] = {2, 3, 4, 5, 6};
int numLeds = 5;

void setup() {
    // Initialize each LED pin as an output
    for (int i = 0; i < numLeds; i++) {
        pinMode(ledPins[i], OUTPUT);
    }
}

void loop() {
    // Run LEDs from left to right
    for (int i = 0; i < numLeds; i++) {
        digitalWrite(ledPins[i], HIGH);
        delay(100);
        digitalWrite(ledPins[i], LOW);
    }

    // Run LEDs from right to left
    for (int i = numLeds - 1; i >= 0; i--) {
        digitalWrite(ledPins[i], HIGH);
        delay(100);
        digitalWrite(ledPins[i], LOW);
    }
}
```

