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/*
Experiment No.: 04
Statement
           :
                   Fade and brighten 5 LEDs alternatively.
Date of Exp. :
                   xx/xx/xxxx
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Author
* /
int ledPin = 2;
int ledPin2 = 3;
int ledPin3 = 4;
int ledPin4 = 5;
int ledPin5 = 6;
void setup() {
 pinMode(ledPin, OUTPUT);
 pinMode(ledPin2, OUTPUT);
 pinMode(ledPin3, OUTPUT);
 pinMode(ledPin4, OUTPUT);
 pinMode(ledPin5, OUTPUT);
}
void loop() {
  // fade in from min to max in increments of 5 points:
  for (int fadeValue = 0 ; fadeValue <= 255; fadeValue =</pre>
fadeValue+5)
    // sets the value (range from 0 to 255):
    analogWrite(ledPin, fadeValue);
   // wait for 30 milliseconds to see the dimming effect
   delay(30);
  }
  // fade out from max to min in increments of 5 points:
  for (int fadeValue = 255; fadeValue >= 0; fadeValue = fadeValue-
5)
{
    // sets the value (range from 0 to 255):
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analogWrite(ledPin, fadeValue);
   // wait for 30 milliseconds to see the dimming effect
   delay(30);
  }
 // fade in from min to max in increments of 5 points:
  for (int fadeValue = 0 ; fadeValue <= 255; fadeValue =
fadeValue+5)
   // sets the value (range from 0 to 255):
   analogWrite(ledPin2, fadeValue);
   // wait for 30 milliseconds to see the dimming effect
   delay(30);
  }
  // fade out from max to min in increments of 5 points:
 for (int fadeValue = 255; fadeValue >= 0; fadeValue = fadeValue-
5)
   // sets the value (range from 0 to 255):
   analogWrite(ledPin2, fadeValue);
    // wait for 30 milliseconds to see the dimming effect
   delay(30);
// fade in from min to max in increments of 5 points:
  for (int fadeValue = 0 ; fadeValue <= 255; fadeValue =
fadeValue+5)
    // sets the value (range from 0 to 255):
   analogWrite(ledPin3, fadeValue);
   // wait for 30 milliseconds to see the dimming effect
   delay(30);
 }
for (int fadeValue = 255; fadeValue >= 0; fadeValue = fadeValue-
5)
 {
   // sets the value (range from 0 to 255):
   analogWrite(ledPin3, fadeValue);
    // wait for 30 milliseconds to see the dimming effect
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delay(30);}
for (int fadeValue = 0 ; fadeValue <= 255; fadeValue = fadeValue+5)</pre>
    // sets the value (range from 0 to 255):
    analogWrite(ledPin4, fadeValue);
    // wait for 30 milliseconds to see the dimming effect
   delay(30);
for (int fadeValue = 255; fadeValue >= 0; fadeValue = fadeValue-
5)
{
    // sets the value (range from 0 to 255):
    analogWrite(ledPin4, fadeValue);
    // wait for 30 milliseconds to see the dimming effect
    delay(30);}
  for (int fadeValue = 0 ; fadeValue <= 255; fadeValue =
fadeValue+5)
    // sets the value (range from 0 to 255):
    analogWrite(ledPin5, fadeValue);
    // wait for 30 milliseconds to see the dimming effect
   delay(30);
for (int fadeValue = 255; fadeValue >= 0; fadeValue = fadeValue-
5)
{
    // sets the value (range from 0 to 255):
    analogWrite(ledPin5, fadeValue);
    // wait for 30 milliseconds to see the dimming effect
   delay(30);
}
}
```



