```
Experiment No.: 03
           : Make a light intensity meter that represent
light intensity on 5 LEDs, such that all LEDs would glow for
maximum light, no LED would glow for dark condition, and likewise
for in between light intensities.
Date of Exp. : xx/xx/xxx
Author
       : Aabha Nimje (A-33)
*/
const int ldrPin = A0; // LDR connected to analog pin A0
const int numLeds = 5;  // Number of LEDs
const int ledPins[] = \{2, 3, 4, 5, 6\}; // Pins for the LEDs
void setup()
 pinMode(ldrPin, INPUT);
 for (int i = 0; i < numLeds; i++)
   pinMode(ledPins[i], OUTPUT);
  }
 Serial.begin (9600);
}
void loop()
```

{

/*

```
int lightIntensity = analogRead(ldrPin);

// Map the light intensity to the number of LEDs
int numLedsToTurnOn = map(lightIntensity, 0, 1023, 0, numLeds);

// Turn on the corresponding number of LEDs
for (int i = 0; i < numLeds; i++)
{
    digitalWrite(ledPins[i], i < numLedsToTurnOn);
}

// Print the light intensity value to the Serial Monitor
Serial.println(lightIntensity);
delay(500); // Adjust the delay as needed
}</pre>
```



