

A decorative graphic on the left side of the slide, consisting of a network of thin, light-blue lines and small circles, resembling a circuit board or a neural network, extending vertically from the top to the bottom.

SENSOR INTERFACING

COMMON FUNCTIONS:

- `pinMode()`
- `digitalRead()`
- `digitalWrite()`
- `analogRead()`
- `analogWrite()`



- `map()`

- `pulseIn()`

- <https://www.arduino.cc/reference/en/#functions>

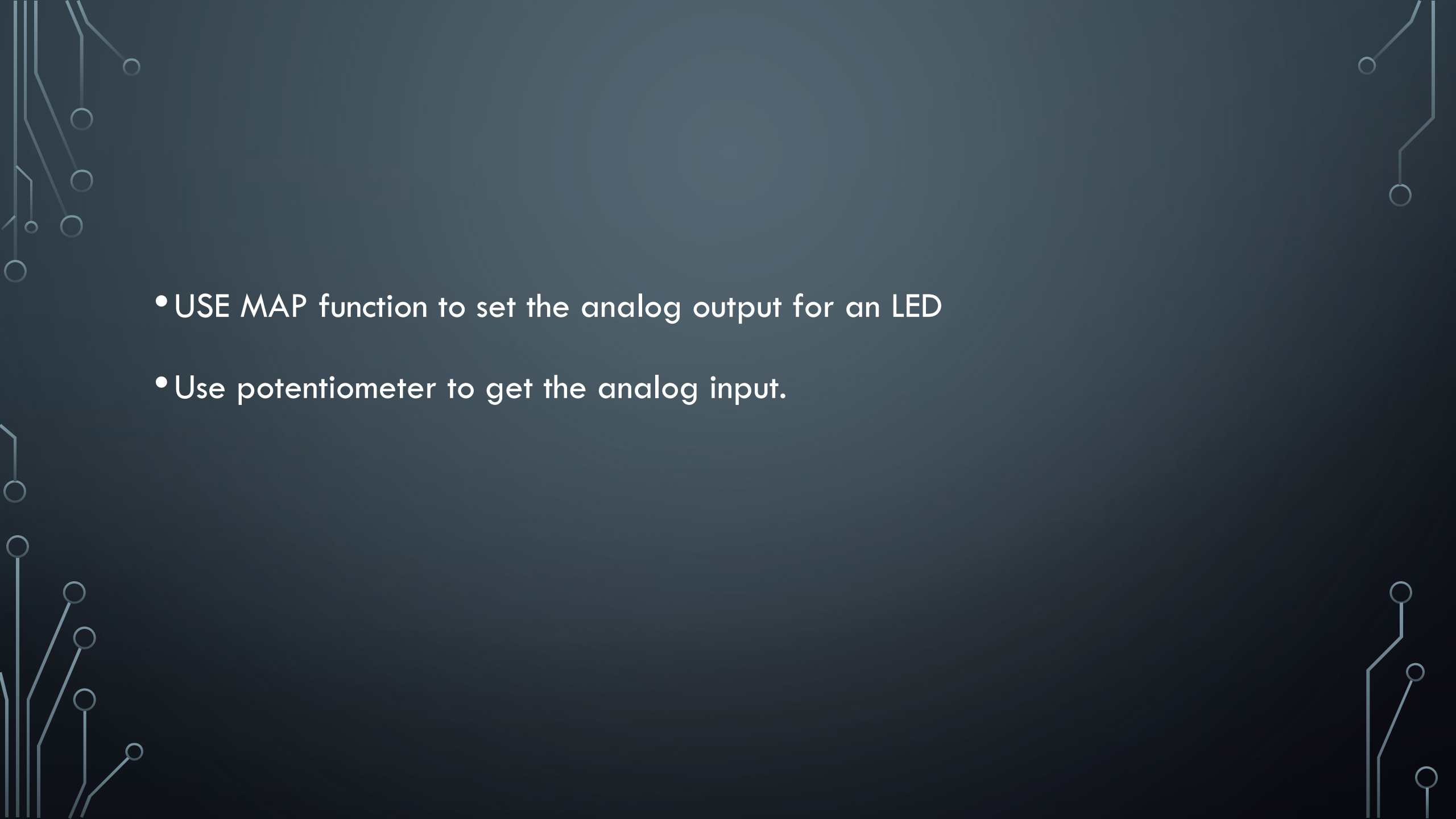




TASK 1:

Change the state of a LED by using a push button switch.



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- The background is a dark blue gradient. In the corners, there are decorative white line art elements resembling circuit traces or a stylized city skyline. These elements consist of thin lines connecting small circles, creating a network-like pattern.
- USE MAP function to set the analog output for an LED
 - Use potentiometer to get the analog input.



TASK 2:

Use an ultrasonic sensor to measure the distance of an obstacle.

