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IOT ASSIGNMENT 3

**Explain Basic Structure of an Arduino Program.**

An Arduino program (often called a "sketch") has a basic structure that consists of two main functions: setup() and loop(). Here’s a breakdown of the basic structure:

**Basic Structure**

1. **Global Variables (Optional)**: Define variables used throughout the sketch.

int sensorValue = 0;

1. **setup() Function**: Runs once at the start to initialize settings.

void setup() { pinMode(LED\_BUILTIN, OUTPUT); Serial.begin(9600); }

1. **loop() Function**: Runs repeatedly to execute the main logic.

void loop() { sensorValue = analogRead(A0); Serial.println(sensorValue); digitalWrite(LED\_BUILTIN, HIGH); delay(1000); digitalWrite(LED\_BUILTIN, LOW); delay(1000); }