PRACTICAL REPORT

For IoT Practical

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5.9 – Simple Analog and Digital Input

➔ Arduino Code:

```
const float referenceVolts = 5.0;
const int batteryPin = 0;
// the default reference on a 5-volt board
// battery is connected to analog pin 0
void setup()
{
        Serial.begin(9600);
}
void loop()
{
        int val = analogRead(batteryPin);  // read the value from the sensor
        float volts = (val / 1023.0) * referenceVolts; // calculate the ratio
        Serial.println(volts); // print the value in volts
}
```

➔ Output / Circuit Diagram: