



PRACTICAL REPORT

For IoT Practical



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5.1 – Simple Digital and Analog Input - Using a Switch Without External Resistor

Arduino Code:

```
const int ledPin = 13; // choose the pin for the LED
const int inputPin = 2; // choose the input pin (for a pushbutton)
void setup()
{
    pinMode(ledPin, OUTPUT); // declare LED as output
    pinMode(inputPin, INPUT); // declare pushbutton as input
}
void loop()
{
    int val = digitalRead(inputPin); // read input value

    if (val == HIGH) // check if the input is HIGH
        digitalWrite(ledPin, HIGH); // turn LED on if switch is pressed
    else
        digitalWrite(ledPin, LOW);
}
```

Output:



