

Practical No. 4 : LED control on/off

```
char input; // Variable to store serial input

void setup() {
    pinMode(13, OUTPUT); // Set pin 13 as output (LED pin)
    Serial.begin(9600); // Start serial communication at 9600 baud rate
}

void loop() {
    if (Serial.available() > 0) { // Check if data is available to read
        input = Serial.read(); // Read one character from serial input
    }

    if (input == '1') { // If user enters '1'
        digitalWrite(13, HIGH); // Turn LED ON
    }
    else if (input == '0') { // If user enters '0'
        digitalWrite(13, LOW); // Turn LED OFF
    }
}
```

Output:

