

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:

