

```
#include <WiFi.h>
#include <WebServer.h>

const char *ssid = "Wokwi-GUEST";
const char *password = ""; // No password for Wokwi-GUEST
const int potPin = 34;
int potValue = 0;
```

```
WebServer server(80);
```

```
void handleRoot() {
    String html = "<html><body>";
    html += "<h1>Potentiometer Value:</h1>";
    html += "<p>" + String(potValue) + "</p>";
    html += "</body></html>";
    server.send(200, "text/html", html);
}
```

```
void setup() {
    Serial.begin(115200);
    pinMode(potPin, INPUT);

    // Connect to Wi-Fi
    WiFi.begin(ssid, password);
    while (WiFi.status() != WL_CONNECTED) {
        delay(1000);
        Serial.println("Connecting to WiFi...");
    }
}
```

```
Serial.println("Connected to WiFi");
Serial.println("IP address: ");
Serial.println(WiFi.localIP());
```

```
// Handle root URL
```

```
server.on("/", HTTP_GET, handleRoot);
```

```
// Start server
```

```
server.begin();
```

```
}
```

```
void loop() {
```

```
// Read potentiometer value
```

```
potValue = analogRead(potPin);
```

```
// Handle incoming HTTP requests
```

```
server.handleClient();
```

```
delay(100); // Adjust delay as needed
```

```
}
```