

```

#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
```

```
}
```