## ESP8266 webserver

Objective: To setup a webserver on the ESP for entering in X & Y coordinates.

Set-up: Use the ESP 8266 board with its Wi-Fi libraries (ESP8266WiFi.h, WiFiClient.h, ESP8266WebServer.h).

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application, email

Description automatically generated

Figure 1 ESP webserver(Left) and Serial monitor result (Right)

Code for the webserver was modified from *circuits4you.com ,* it is shown in full in Appendix C.

In Figure 26 on the right when a Wi-Fi connection is established there is an output showing the Internet Protocol (IP) address to use for connecting to the webserver, this is placed into the browser shown on the left which displays the HTML webpage that was created. Here X-values and Y-values of 27 and 543 have been entered and are shown correctly back to the serial monitor.

Result: The webserver was set up and worked as expected by receiving the X and Y values and saving them to local attributes on the ESP, ready for the program to being making decisions.