

Digital Read Serial

Code Club Challenge – 01-03

Setup:

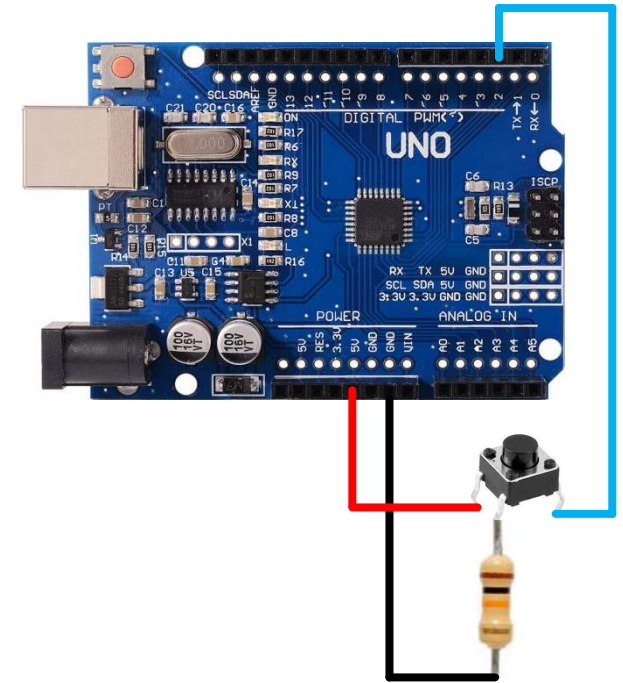
- Load the sketch from the IDE File/Examples/01.Basics/... menu
- Connect up your circuit as shown (disconnected from USB)
- Follow the tutorial at <https://www.arduino.cc/en/Tutorial/DigitalReadSerial>
- Display your results using the Serial Monitor and the Serial Plotter
- Show your understanding of the code by explaining it to your teacher

Code Challenges:

- Add code such that when the switch is pressed the built-in LED will light.
- Add code to display how long the switch is pressed for in milliseconds.
- As in Morse Code, can you display 'Dot' for a short press and 'Dash' for a long one.

Can you:

- If you added other functions to your code, why can't they use the 'buttonState' value?
- Is there a way of overcoming this limitation?
- Give examples of real life applications of this control circuit?



WARNING!

Always disconnect power before making/changing circuit connections