

Materials

- Arduino Uno

Background & Set-Up:

https://en.wikipedia.org/wiki/Random_number_generation

Leveraging your previous random number generator, can you make it randomly assign the students in the class?

You will set up the Arduino to communicate with your computer using the Arduino's serial port bus that communicates over the USB connection. Use the Arduino-PC Serial Comms starter code to see how to set up the connection. To send a message to your Arduino from your PC, open the serial port monitor (Tools->Serial Port Monitor). Double-check to make sure the settings match your parameters you set up in your program.

Goal:

We want to write a program that will randomly assign the students in the class using your random number generator. You will input how large you want the groups of students to be (pairs, teams of 4, etc.), it will then output you with a list of names randomly assigned to different teams.

Input: "2"

Output:

*****Group #1*****

Andrew

Dylan

*****Group #2*****

Tilley

Kush

*****Group #3*****

Katherine

Ramsey

Duke TIP - Summer Studies 2019
Electrical Engineering

Instructor: Michael D'Argenio
Assignment: Random Group Assigner

*****Group #4*****

Audrey

Toby

*****Group #5*****

David

Sarah

*****Group #6*****

Alex

Nic

*****Group #7*****

Connor

William

*****Group #8*****

James

Josh