

ECET 130 - Lab 3

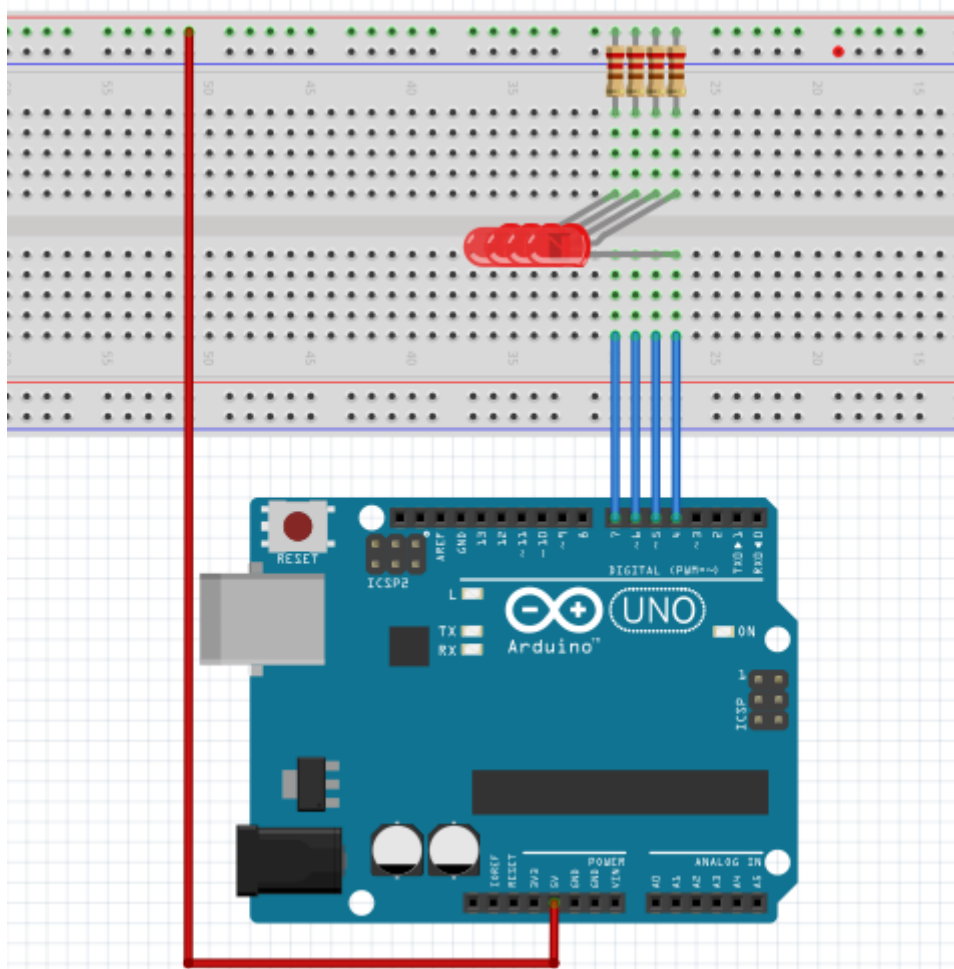
floats chars and switch with serial Input

Part1:

Load last weeks Lab2 - Part4 code and verify it still compiles and loads on your arduino.

Part2:

Wire the following circuit.

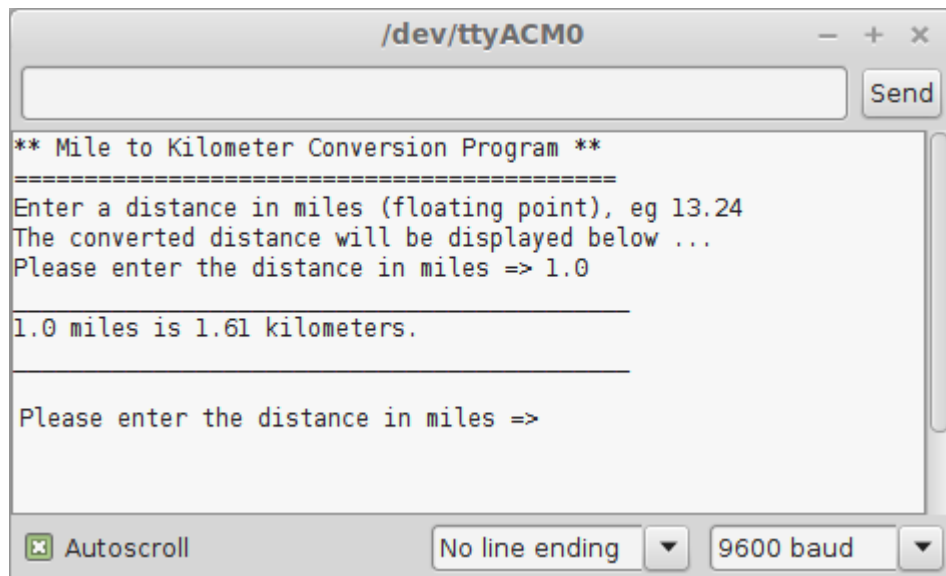


1) Make a **lab3p1** project. Write a program to convert miles to kilometers.

Print a banner explaining the program, ask the user to enter a mileage to convert. Print the mileage asked for to 1 decimal place and the converted value to 2 decimal places.

The banner should print once, but the program should run forever.

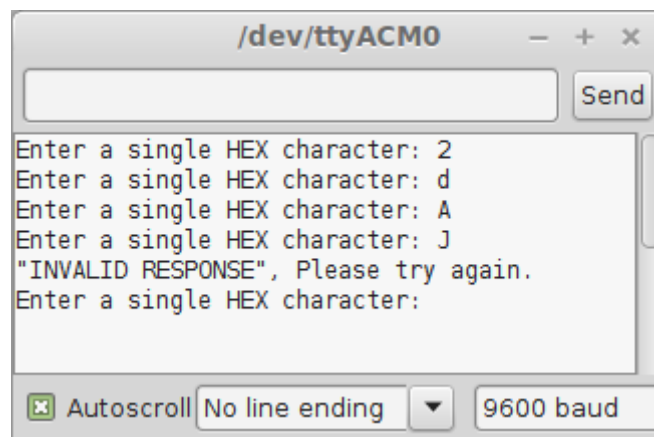
Use `Serial.available`, `Serial.printf`, `Serial.parseFloat` functions.



2) Make a **lab3p2** project. Ask the user to input a single HEX character, print the users response and using a switch statement, light 4 LEDs to represent the binary value of the hex character. An invalid response should print out the following message:
"INVALID RESPONSE" , Please try again.

The program should run forever.

Use the `pinMode`, `digitalWrite`, `Serial.printf`, `Serial.available`, and `Serial.read` functions.



Submit your modified and appropriately commented programs to the dropbox Lab3 folder by the start of lab Week4.

Be prepared to demo your code in Lab4.