

SERIAL MONITOR

Lesson 3

A very brief intro to outputting data

SETUP SERIAL MONITOR

```
void setup() {  
  Serial.begin(9600);  
  // Other code below  
}
```

PRINTING TO THE MONITOR

Allows you to see output of your program

- `Serial.print()` Outputs on a single line
- `Serial.println()` Outputs on a single line, line feeds

```
void setup() {  
  Serial.begin(9600);  
  Serial.print("Yo");  
  Serial.print("Yo");  
}
```

Output

YoYo

```
void setup() {  
  Serial.begin(9600);  
  Serial.println("Yo");  
  Serial.println("Yo");  
}
```

Output

Yo
Yo

PRINTING VARIABLES

Text and variables cannot be mixed together in the output.

- You must use combinations of `print()` and `println()`

```
void setup() {  
  char leftMotorPin = 9;  
  Serial.begin(9600);  
  Serial.print("The left motor pin is pin ");  
  Serial.print(leftMotorPin);  
  Serial.println("!");  
  
  Serial.println("Program done.");  
}
```

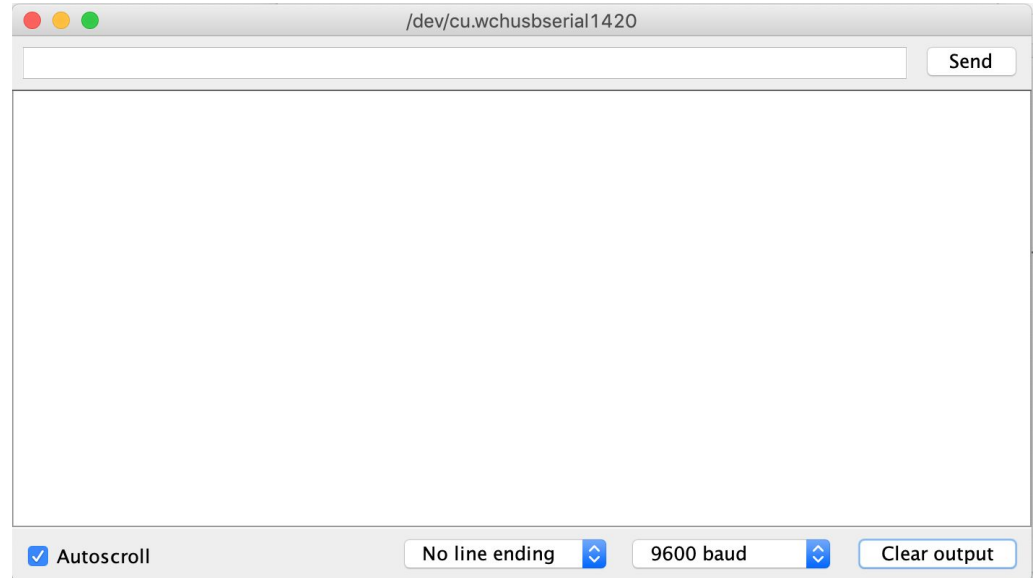
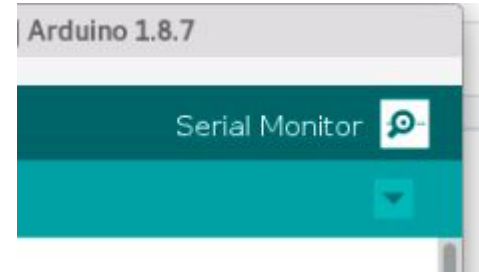
Output

The left motor pin is pin 9!
Program done.

VIEWING THE MONITOR

Once your program is running

- Click the icon in the upper right
- Tools → Serial Monitor
- Ctrl+Shift+M



WRITING TO ARDUINO

The serial monitor allows two way communication.

Inputs (to Arduino)



Outputs (from Arduino)



PARTING THOUGHTS

- Remember to setup the monitor with `Serial.begin(9600);`
- Output data at any time after with
 - `Serial.print();`
 - `Serial.println();`
- Only some boards reset when monitor is opened

QUESTIONS?

