

Exercise 2 rory lange

```
File Edit Sketch Tools Help

serialMath

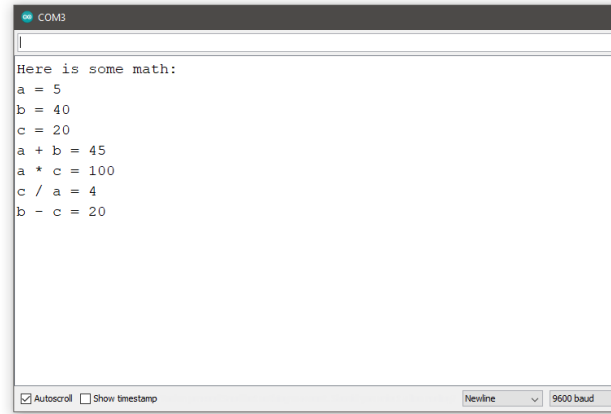
int a = 5;
int b = 40;
int c = 20;

void setup() {
  // put your setup code here, to run once:
  Serial.begin(9600);

  Serial.println("Here is some math: ");

  Serial.print("a = ");
  Serial.println(a);
  Serial.print("b = ");
  Serial.println(b);
  Serial.print("c = ");
  Serial.println(c);

  Serial.print("a + b = ");
  Serial.println(a + b);
  Serial.print("a * c = ");
  Serial.println(a * c);
  Serial.print("c / a = ");
  Serial.println(c / a);
  Serial.print("b - c = ");
  Serial.println(b - c);
}
```



```
COM3

Here is some math:
a = 5
b = 40
c = 20
a + b = 45
a * c = 100
c / a = 4
b - c = 20

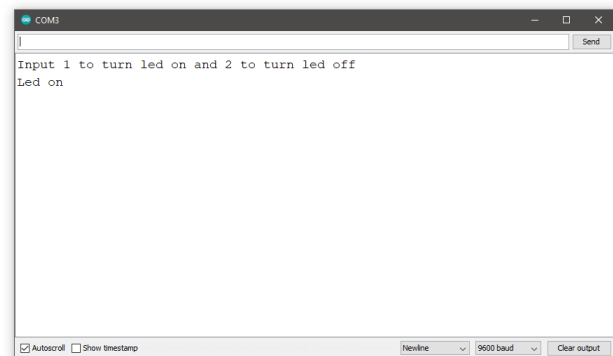
Autoscroll Show timestamp Newline 9600 baud
```

Exercise 3

```
int led = 10;

void setup() {
  // put your setup code here, to run once:
  pinMode(led, OUTPUT);
  Serial.begin(9600);
  while (!Serial);
  Serial.println("Input 1 to turn led on and 2 to turn led off");
}

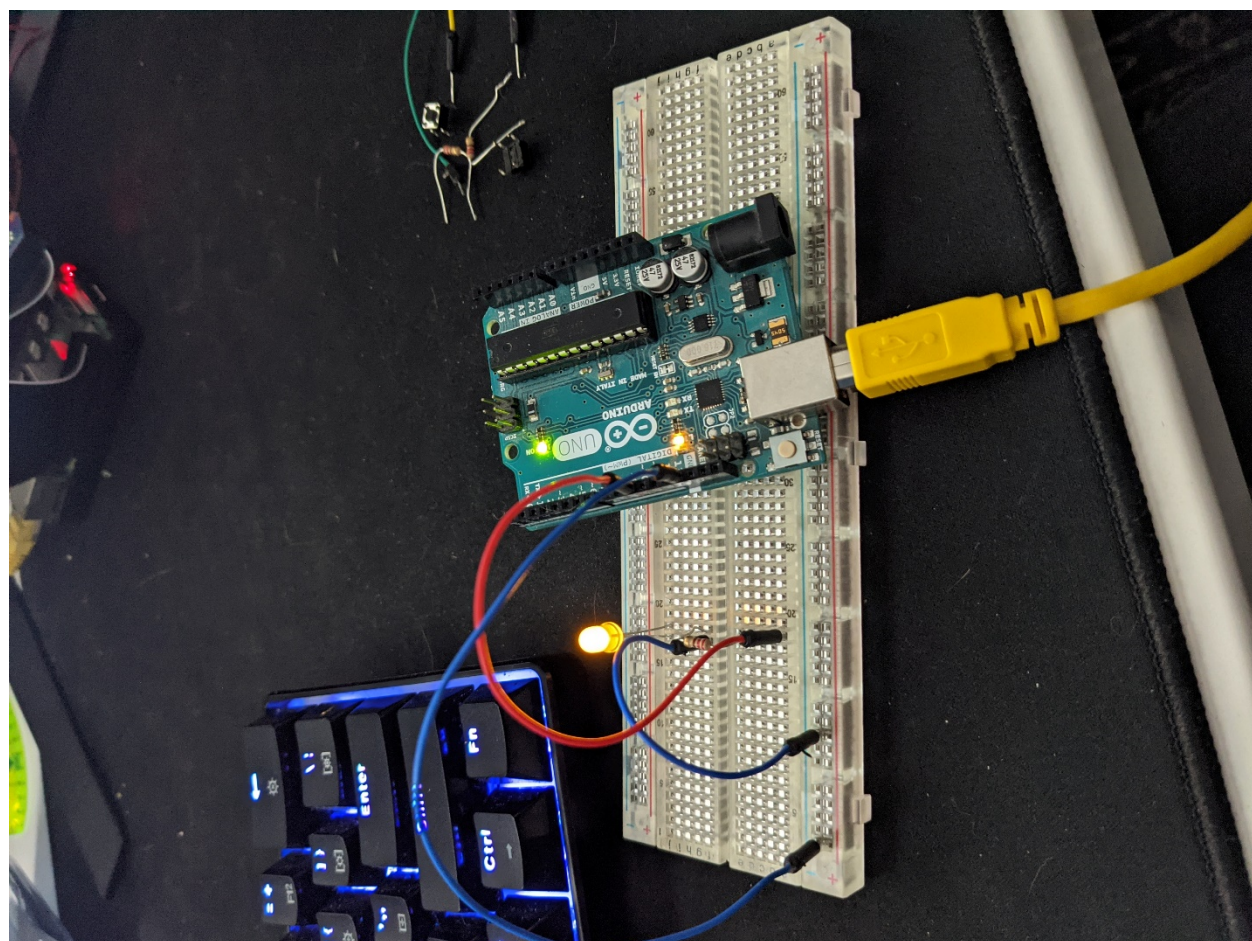
void loop() {
  // put your main code here, to run repeatedly:
  if (Serial.available()) {
    int state = Serial.parseInt();
    if (state == 1) {
      digitalWrite(led, HIGH);
      Serial.println("Led on");
    }
    else if (state == 2) {
      digitalWrite(led, LOW);
      Serial.println("Led off");
    }
  }
}
```



```
COM3

Input 1 to turn led on and 2 to turn led off
Led on

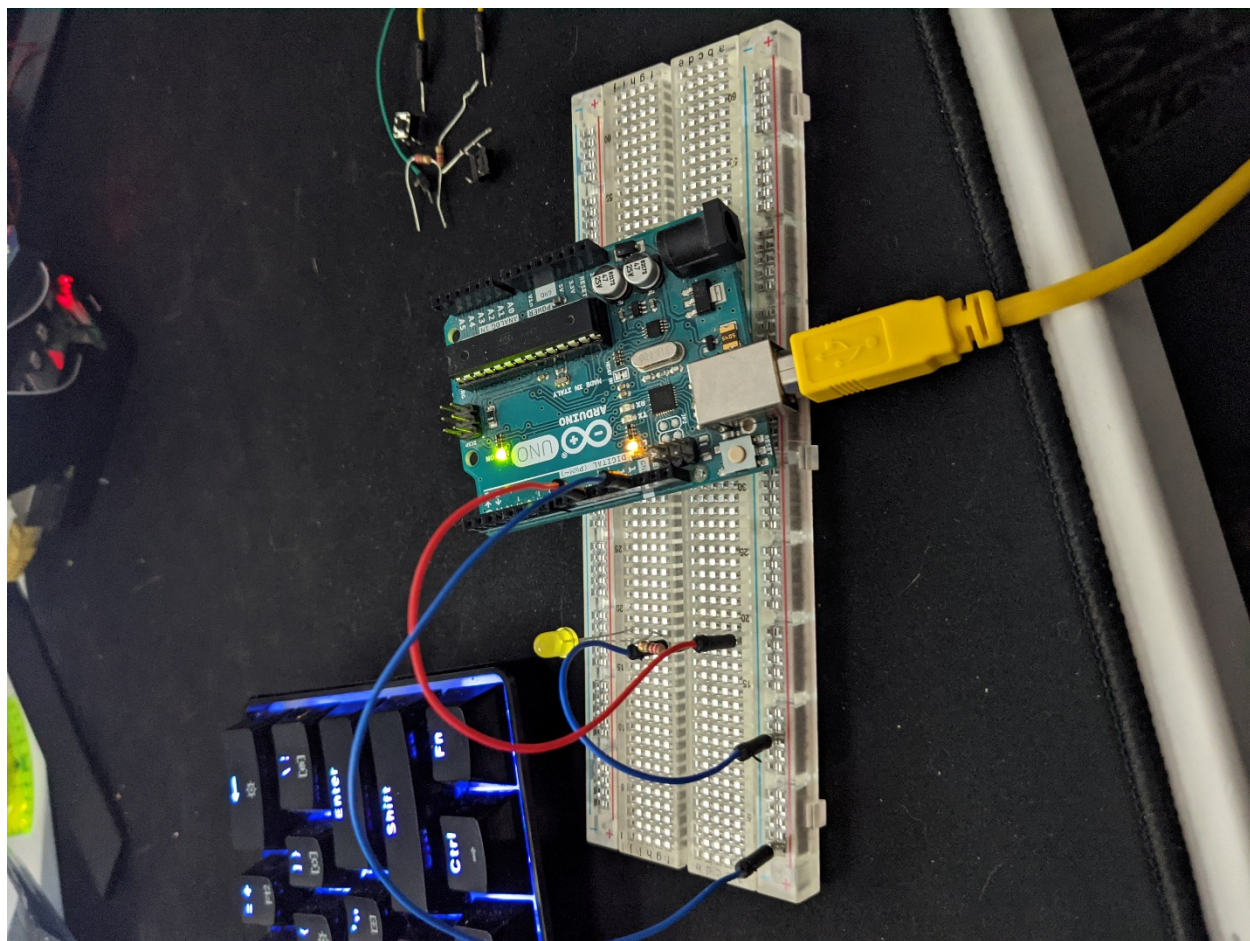
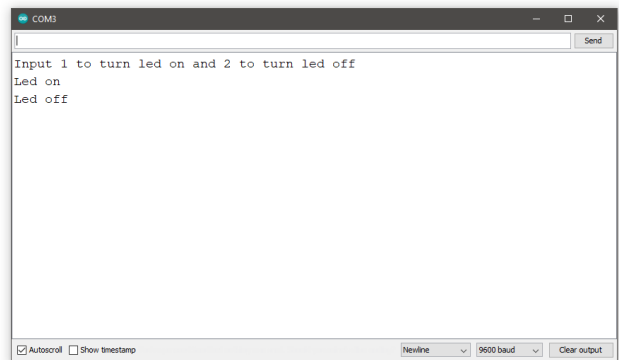
Autoscroll Show timestamp Newline 9600 baud Clear output
```



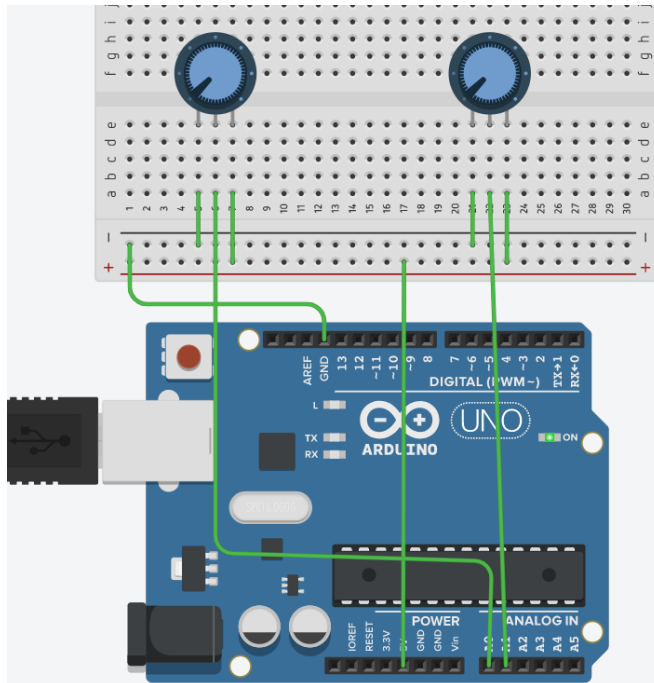
```
serialLed
int led = 10;

void setup() {
  // put your setup code here, to run once:
  pinMode(led, OUTPUT);
  Serial.begin(9600);
  while (!Serial);
  Serial.println("Input 1 to turn led on and 2 to turn led off");
}

void loop() {
  // put your main code here, to run repeatedly:
  if (Serial.available()) {
    int state = Serial.parseInt();
    if (state == 1){
      digitalWrite(led, HIGH);
      Serial.println("Led on");
    }
    else if(state == 2){
      digitalWrite(led, LOW);
      Serial.println("Led off");
    }
  }
}
```



Exercise 4



Text

```

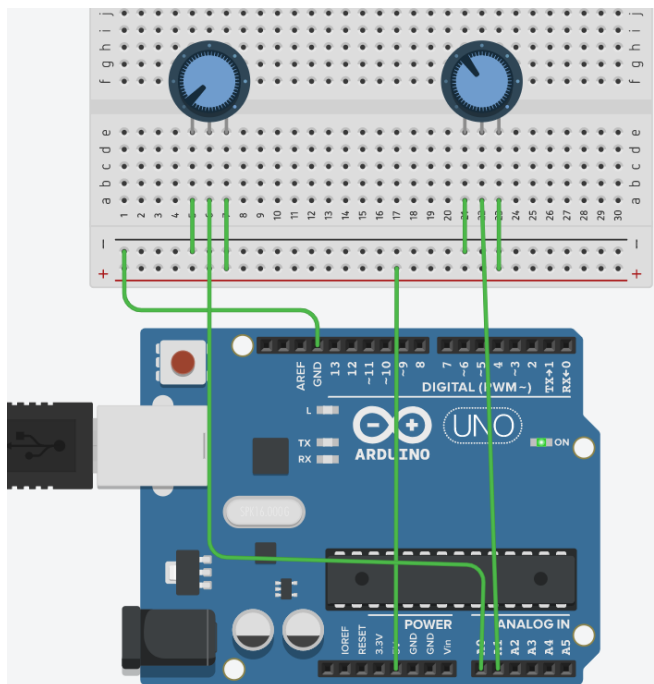
1 int pot1 = 0;
2 int pot2 = 0;
3
4
5
6 void setup()
7 {
8   Serial.begin(9600);
9 }
10
11
12 void loop()
13 {
14
15   pot1 = analogRead(0);
16   pot2 = analogRead(1);
17
18   Serial.print("A value: ");
19   Serial.println(pot1);
20
21   Serial.print("B value: ");
22   Serial.println(pot2);
23   Serial.println();
24
25   if ((pot1 == (pot2) )) {
26     Serial.println("A equals B");
27   }
28   else if ((pot1) > (pot2) )) {
29     Serial.println("A is higher");
30   }
31 }
32 else {
33   Serial.println("B is higher");
34 }
35 delay(1000);
36 }

```

Serial Monitor

A equals B
A value: 0
B value: 0

A equals B
A value: 0
B value: 0



Text

```

1 int pot1 = 0;
2 int pot2 = 0;
3
4
5
6 void setup()
7 {
8   Serial.begin(9600);
9 }
10
11
12 void loop()
13 {
14
15   pot1 = analogRead(0);
16   pot2 = analogRead(1);
17
18   Serial.print("A value: ");
19   Serial.println(pot1);
20
21   Serial.print("B value: ");
22   Serial.println(pot2);
23   Serial.println();
24
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26     Serial.println("A equals B");
27   }
28   else if ((pot1) > (pot2) )) {
29     Serial.println("A is higher");
30   }
31 }
32 else {
33   Serial.println("B is higher");
34 }
35 delay(1000);
36 }

```

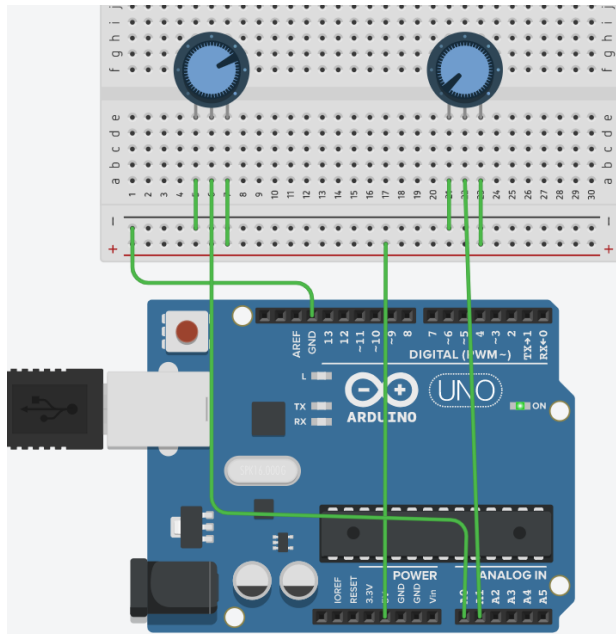
Serial Monitor

A value: 0
B value: 368

B is higher
A value: 0
B value: 368

B is higher

Se



Text



1 (Arduino Uno R3)

```
1 int pot1 = 0;
2 int pot2 = 0;
3
4
5
6
7 void setup()
8 {
9   Serial.begin(9600);
10 }
11
12 void loop()
13 {
14
15   pot1 = analogRead(0);
16   pot2 = analogRead(1);
17
18   Serial.print("A value: ");
19   Serial.println(pot1);
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21   Serial.print("B value: ");
22   Serial.println(pot2);
23   Serial.println();
24
25   if ((pot1) == (pot2)) {
26     Serial.println("A equals B");
27   }
28   else if ((pot1) > (pot2)) {
29     Serial.println("A is higher");
30   }
31 }
32 else {
33   Serial.println("B is higher");
34 }
35 delay(1000);
36 }
```

Serial Monitor

A value: 737
B value: 0

A is higher
A value: 737
B value: 0

A is higher

Send Clear