Exercise 1 Rory Lange

Exercise 2

Text

1 (Arduino Uno R3)

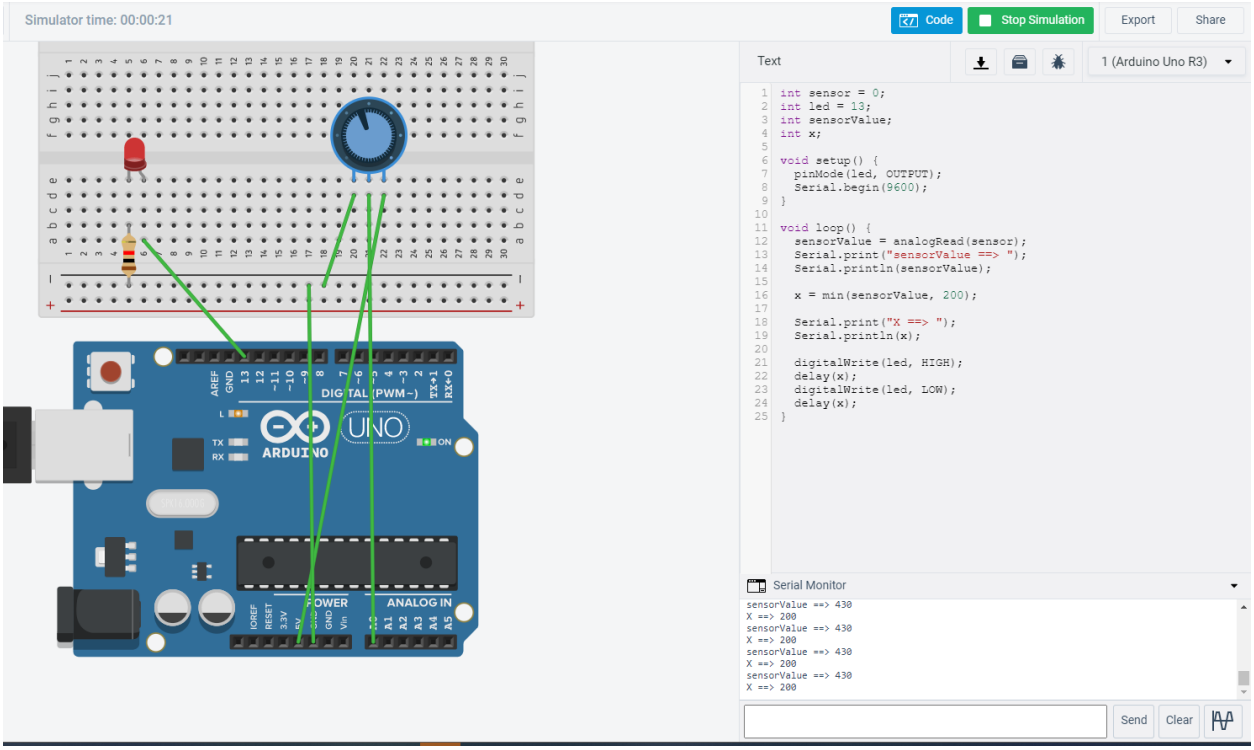
```
int x= 100;
void setup()
{
Serial.begin(9600);
Serial.println(" x= 100 ");
float A = sin(x);
Serial.print(" sin(x)= ");
Serial.println(A);
float B = cos(x);
Serial.print(" cos(x)= ");
Serial.println(B);
  float C = tan(x);
  Serial.print(" tan(x)= ");
  Serial.println(C);
}
void loop()
{ }
```

Serial Monitor

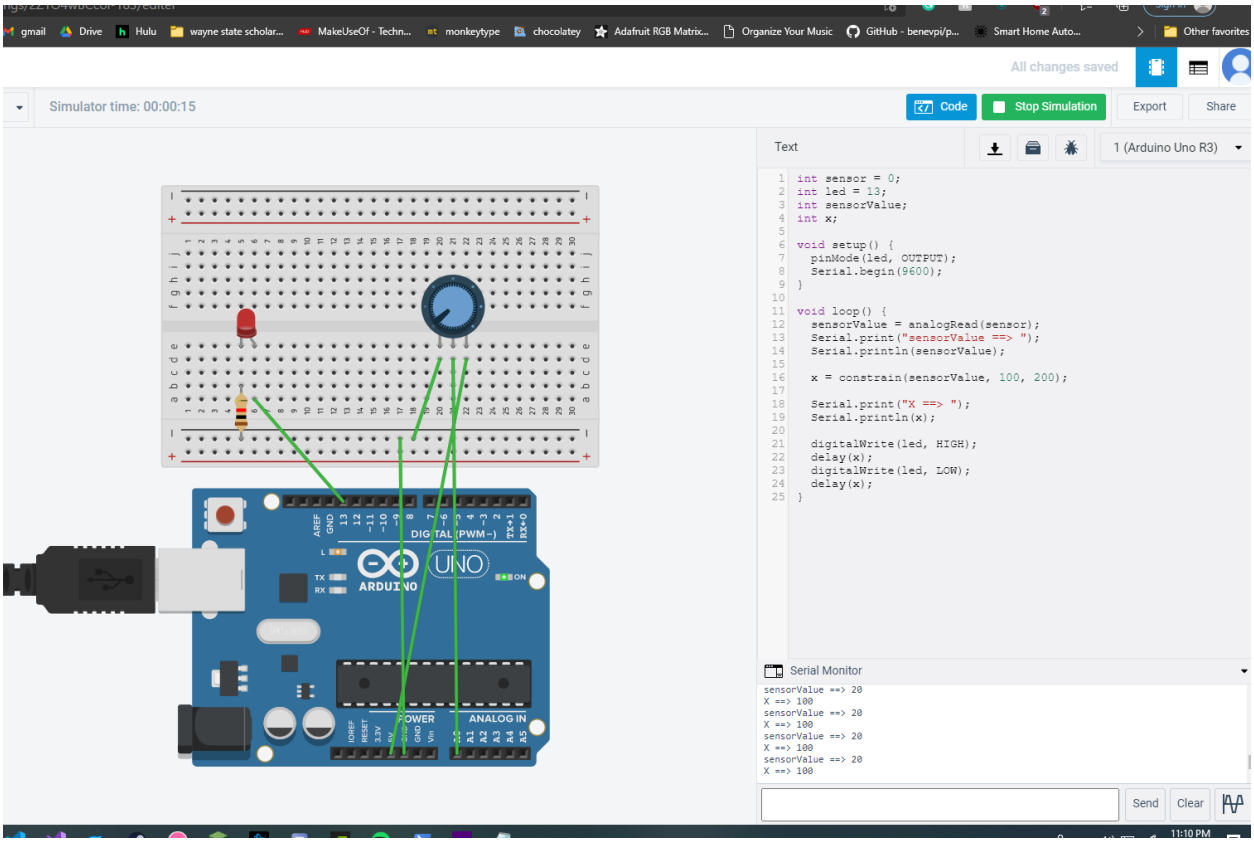
```
x= 100
sin(x)= -0.51
cos(x)= 0.86
tan(x)= -0.59
```

Send Clear

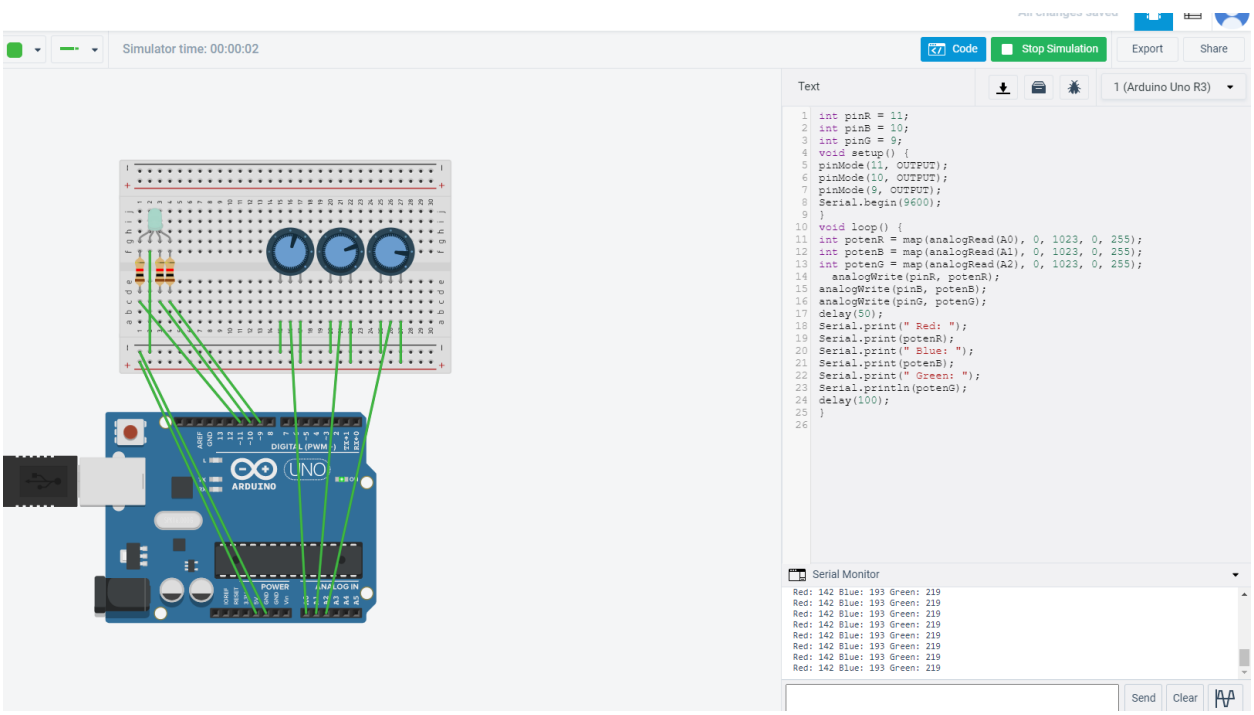
Exercise 3



Exercise 4



Exercise 5


Simulator time: 00:00:02
Code
Stop Simulation
Export
Share
Text
1 (Arduino Uno R3)
int pinR = 11;
int pinB = 10;
int pinG = 9;
void setup() {
pinMode(11, OUTPUT);
pinMode(10, OUTPUT);
pinMode(9, OUTPUT);
Serial.begin(9600);
}
void loop() {
int potenR = map(analogRead(A0), 0, 1023, 0, 255);
int potenB = map(analogRead(A1), 0, 1023, 0, 255);
int potenG = map(analogRead(A2), 0, 1023, 0, 255);
analogWrite(pinR, potenR);
analogWrite(pinB, potenB);
analogWrite(pinG, potenG);
delay(50);
Serial.print(" Red: ");
Serial.print(potenR);
Serial.print(" Blue: ");
Serial.print(potenB);
Serial.print(" Green: ");
Serial.println(potenG);
delay(100);
}
Serial Monitor
Red: 142 Blue: 193 Green: 219
Red: 142 Blue: 193 Green: 219
Red: 142 Blue: 193 Green: 219
Red: 142 Blue: 193 Green: 219
Red: 142 Blue: 193 Green: 219
Red: 142 Blue: 193 Green: 219
Red: 142 Blue: 193 Green: 219
Send
Clear