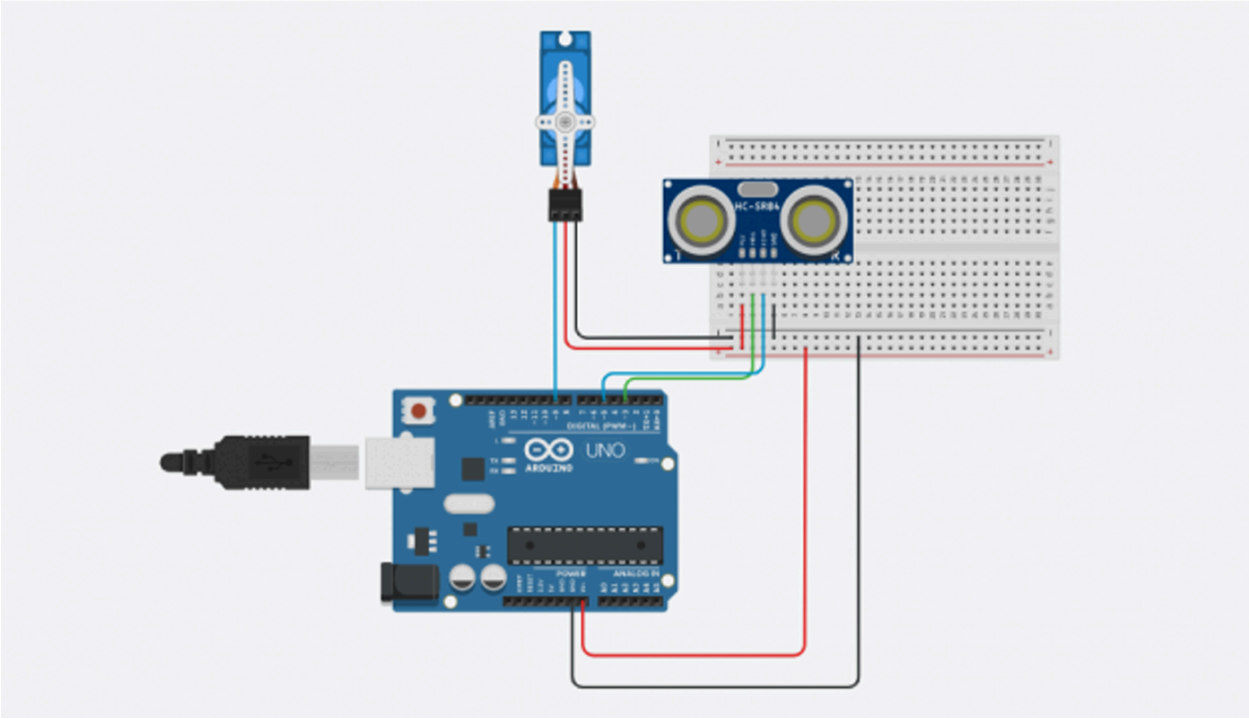
Toll Tax System




```
#include<Servo.h>
const int trigPin = 7;
const int echoPin = 6;
long duration;
int distance;
int servoPin = 3;
Servo Servo1;

void setup()
{
   pinMode(trigPin,OUTPUT);
   pinMode(echoPin,INPUT);
   pinMode(LED,OUTPUT);
   Servo1.attach(servoPin);
}

void loop()
{
   digitalWrite(trigPin,HIGH);
   delayMicroseconds(2);
   digitalWrite(trigPin,LOW);
   delayMicroseconds(10);
   duration = pulseIn(echoPin,HIGH);
```

```
    distance = duration * 0.034 / 2;
    Serial.println(distance);
    Serial.print("\n");
    delay(1000);

    if (distance > 10)
    {
      Servo1.write(180);
      delay(1000);
    }
    else
    {
      Servo1.write(0);
      delay(1000);
    }
}
```

Components Required

- Arduino board (e.g., Arduino Uno)
- HC-SR04 Ultrasonic Sensor
- Servo motor
- Jumper wires
- Breadboard