//Chevel Samuels

//This code Randomly produces the one and zero bit

//Results can be seen in oscilloscope and arduino serial monitor

long randomNumber;

void setup(){

Serial.begin(9600);

pinMode(11,OUTPUT);

randomSeed (analogRead(A0));

}

void loop(){

randomNumber = random(2);

Serial.println(randomNumber);

if (randomNumber == 0){

ZERO();

}

else{

ONE();

}

}

void ONE(){

digitalWrite(11,HIGH);

delayMicroseconds(1);

digitalWrite(11,LOW);

delayMicroseconds (1);

}

void ZERO(){

digitalWrite(11,LOW);

delayMicroseconds (1);

digitalWrite(11,HIGH);

delayMicroseconds (1);

}