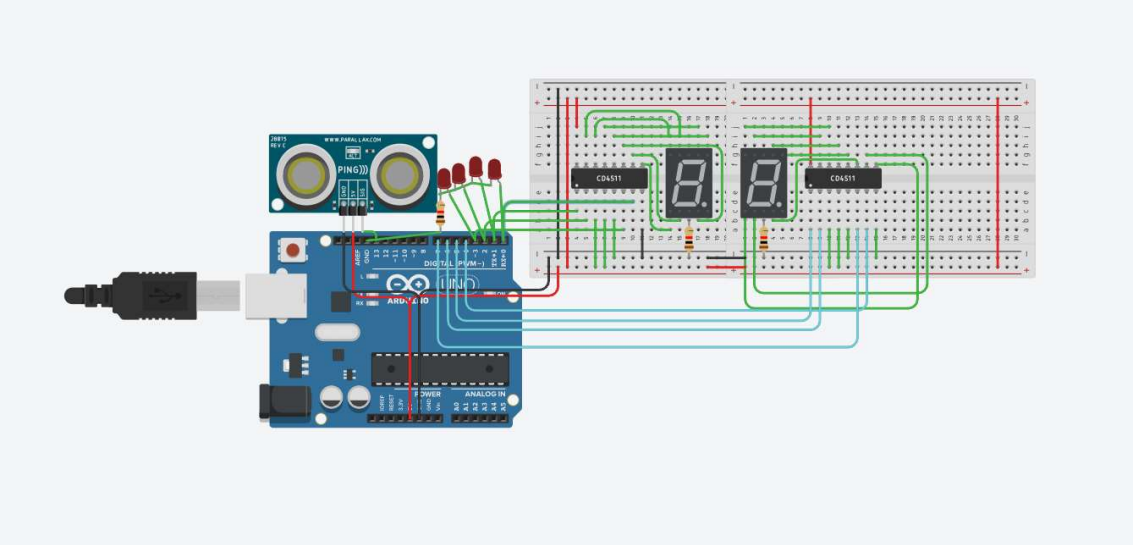
Distance Detecting

Designed an Arduino to detect the distance with US senson and displaying eith the help of &bit comparator;



Code:

```
long readUltrasonicDistance(int triggerPin, int echoPin)
{
  pinMode(triggerPin, OUTPUT);  // Clear the trigger
  digitalWrite(triggerPin, LOW);
  delayMicroseconds(2);
  // Sets the trigger pin to HIGH state for 10 microseconds
  digitalWrite(triggerPin, HIGH);
  delayMicroseconds(10);
  digitalWrite(triggerPin, LOW);
  pinMode(echoPin, INPUT);
  // Reads the echo pin, and returns the sound wave travel time in microseconds
  return pulseIn(echoPin, HIGH);
}

void setup()
```

```
{ for(int i=0;i<8;i++)
  pinMode(i, OUTPUT); // D0

}
void loop()
{

  int cm = 0.01723 * readUltrasonicDistance(13,13);
  int inches = (cm /2.54);Serial.print(inches);
    Serial.print(F("Hello World"));
  Serial.println(cm);
 //for(int j=0;j<99;j++)
{ //inches=j;
     if((inches%10)<7){
  if((inches%10)%2!=0)digitalWrite(4,HIGH);
  if((inches%10)%4>1)digitalWrite(5,HIGH);
  if((inches%10)%8>3)digitalWrite(6,HIGH);
  }
  else{
  if((inches%10)>8)digitalWrite(4,HIGH);
  digitalWrite(7,HIGH);
  }
  if(((inches/10)%10)<7){
  if(((inches/10)%10)%2!=0)digitalWrite(0,HIGH);
  if(((inches/10)%10)%4>1)digitalWrite(1,HIGH);
  if(((inches/10)%10)%8>3)digitalWrite(2,HIGH);
  }
  else{
  if(((inches/10)%10)>8)digitalWrite(0,HIGH);
  digitalWrite(3,HIGH);
  }
```

```
delay(500);
for(int i=0;i<8;i++)
  digitalWrite(i,LOW);
}
   }
```