

# SMARTBRIDGE EXTERNSHIP

## INTERNET OF THINGS

### ASSIGNMENT - 1

P. NISCHAL

20BCR7111

Code:

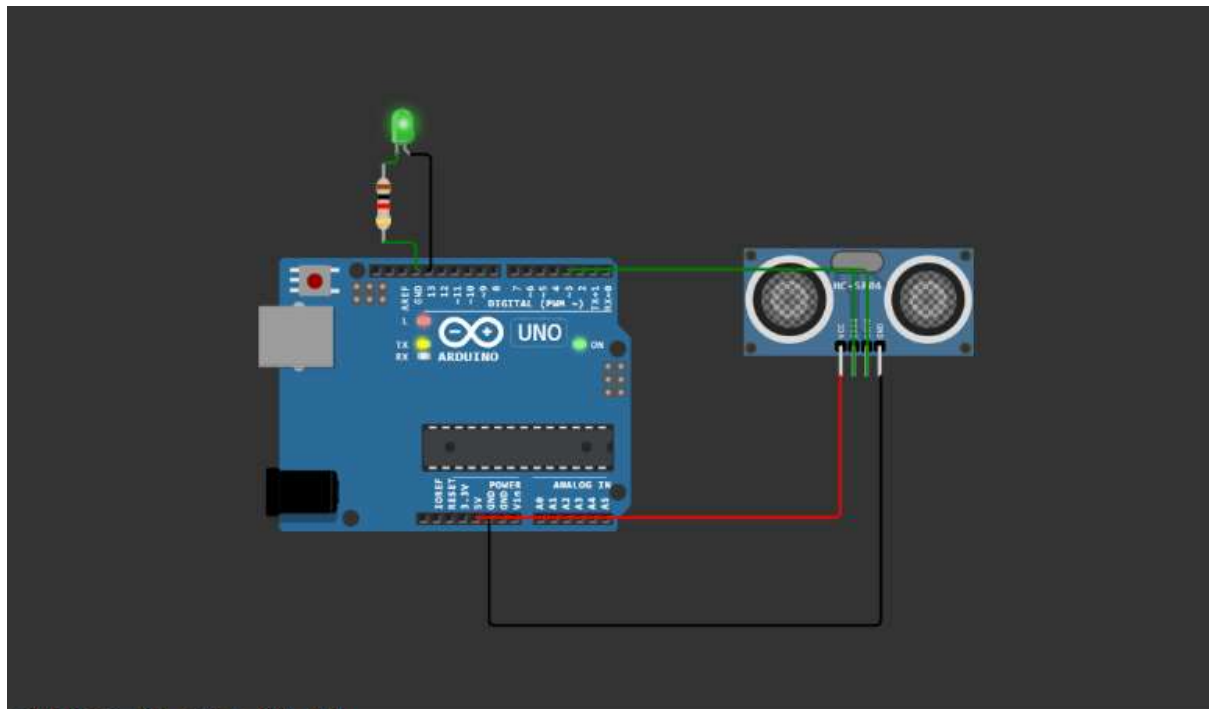
```
int t = 2;
int e = 3;
int led;
void setup() {
  Serial.begin(9600);
  pinMode(t,OUTPUT);
  pinMode(e, INPUT);
  pinMode(LED_BUILTIN, OUTPUT);
}
void loop() {
  digitalWrite(t, LOW);
  digitalWrite(t, HIGH);
  delayMicroseconds(10);
  digitalWrite(t, LOW);
  float dur = pulseIn(e,HIGH);
  float dis = (dur*0.0343)/2;
  Serial.print("Distance in cm: ");
  Serial.println(dis);
```

```

if(dis < 100){
    digitalWrite(LED_BUILTIN, !digitalRead(LED_BUILTIN));
}
}

```

Output:



```

distance in cm: 99.61
distance in cm: 99.66
distance in cm: 99.59
distance in cm: 99.61
distance in cm: 99.61
distance in cm: 99.61

```