SMARTBRIDGE EXTERNSHIP

WEEKLY ASSIGNMENT 1

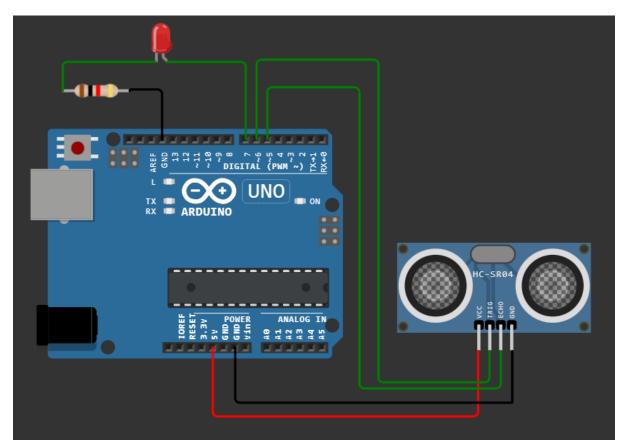
Yaswanth kannan G

20BEC1201

TASK

In Wokwi, if the distance is less than 100 cms for ultrasonic sensor, glow a LED

CIRCUIT DIAGRAM:



CODE:

```
void setup() {
  pinMode(7,OUTPUT);
  pinMode(5,INPUT);
  pinMode(6, OUTPUT);
  Serial.begin(9600);
```

```
}
void loop() {
 digitalWrite(6,LOW);
 digitalWrite(6,HIGH);
 delayMicroseconds(10);
 digitalWrite(6,LOW);
 digitalWrite(5,HIGH);
 float dur = pulseIn(5,HIGH);
 float dis = 0.034*(dur/2);
 Serial.println(dis);
 if (dis < 100)
  digitalWrite(7, HIGH);
 }
 else
  digitalWrite(7, LOW);
}
```

OUTPUT:

