**Personal Assistance for Seniors Who Are Self-Reliant**

**Assignment – I**

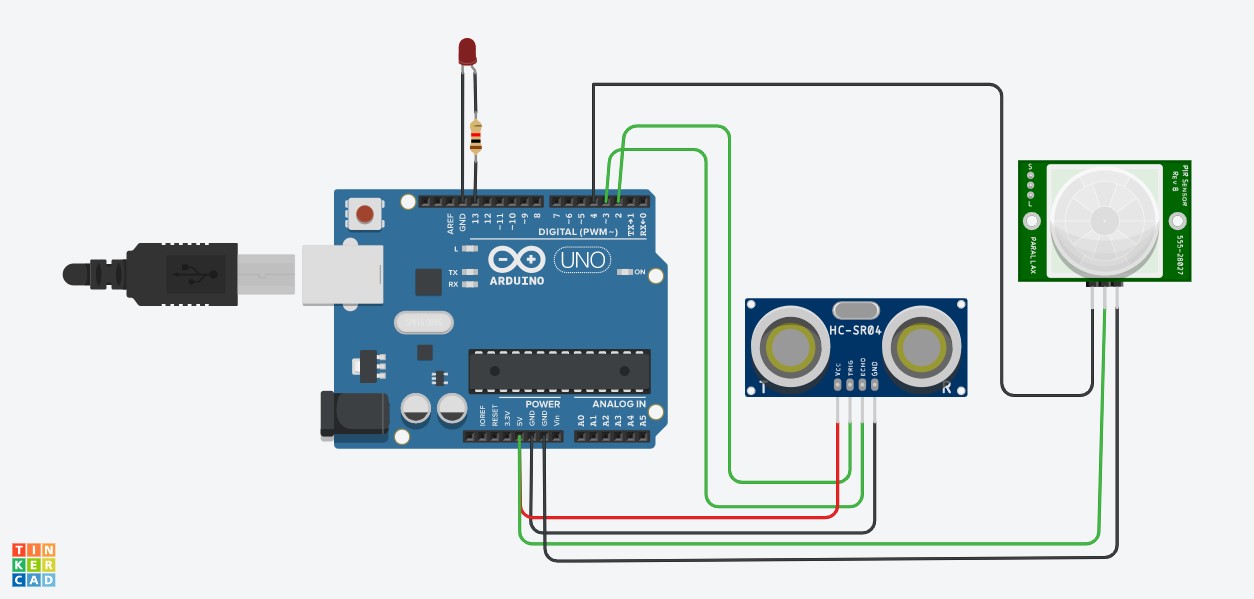
**Topic :** SMART HOME

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**Tinker Cad :**



**Code:**

int trigger\_pin=2; int echo\_pin=3; int time; int distance; void setup()

{

Serial.begin(9600); pinMode(trigger\_pin,OUTPUT); pinMode(echo\_pin,INPUT); pinMode(4,INPUT); pinMode(13,OUTPUT);

} void loop() { digitalWrite(trigger\_pin,HIGH); delayMicroseconds(10); digitalWrite(trigger\_pin,LOW); time=pulseIn(echo\_pin,HIGH); distance=(time\*0.034)/2; if(distance<=10)

{

Serial.println("Door open");

Serial.print("Distance="); Serial.println(distance); delay(500); } else{

Serial.println("Door closed");

Serial.print("Distance="); Serial.println(distance); delay(500); int p=digitalRead(4); if(p)

{

digitalWrite(13,HIGH);

Serial.println("motion detected"); } else

{

digitalWrite(13,LOW); Serial.println("not detected");

}

}

}