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

**Assignment – I**

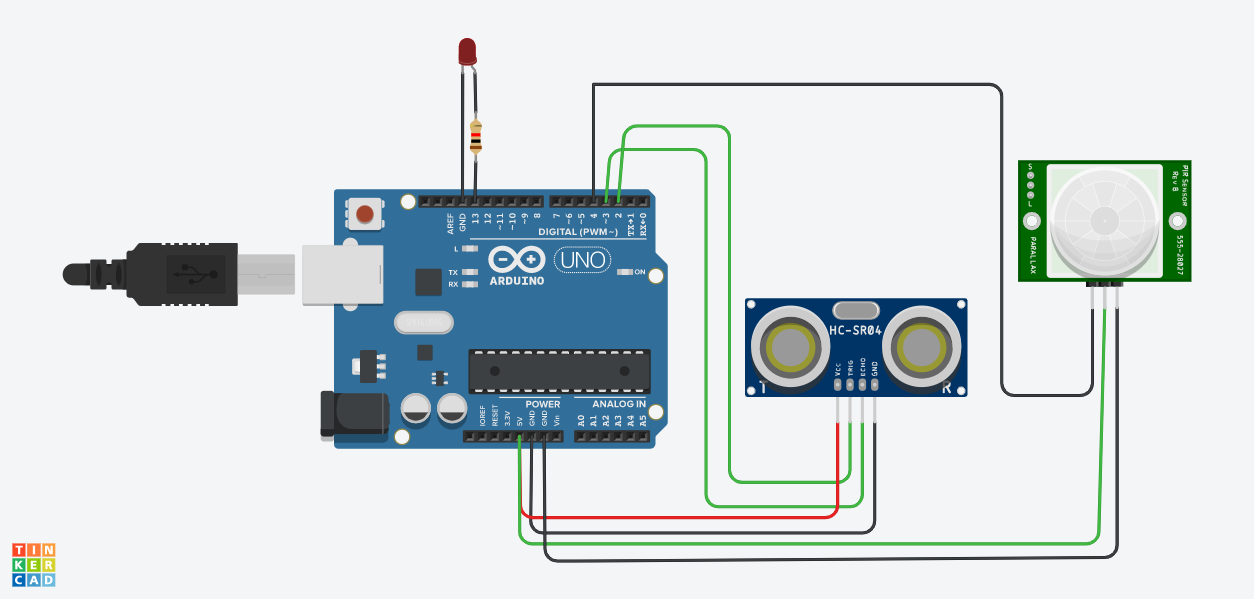
**Topic :** SMART HOME

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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");

}

}

}