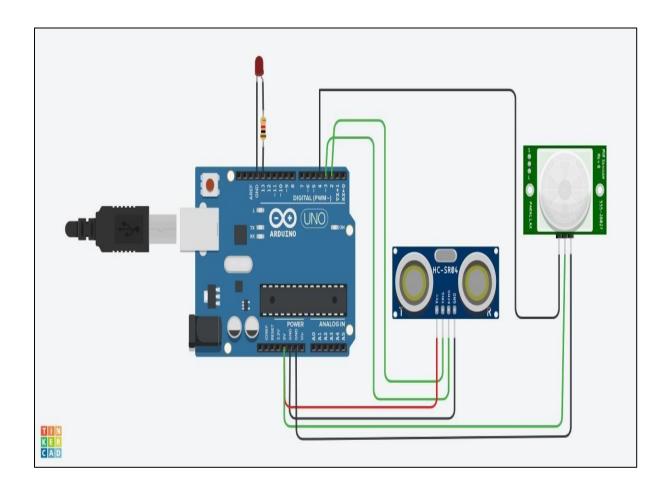
PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT

ASSIGNMENT – I

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);
```