Personal Assistance for Seniors Who Are Self-Reliant

Assignment-I

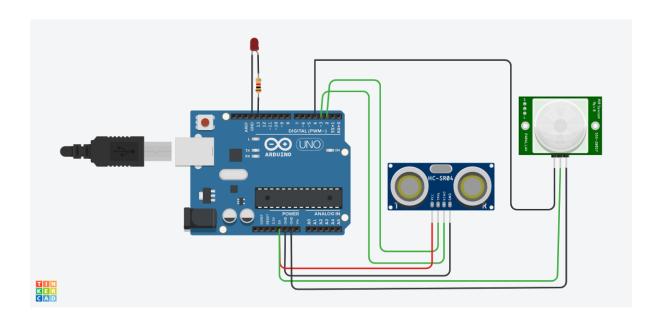
Topic: SMART HOME

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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");
}
```