PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF RELIANT

ASSIGNMENT-1

OBJECTIVE:

Make a smart home in Tinkercad using two are more sensors ,LED ,Buzzer in single code and circuit.

CODING:

```
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");
 }
```

TINKERCAD DESIGN:

