PERSONAL ASSISTANCE FOR SENIORS WHO ARE SELF-RELIANT
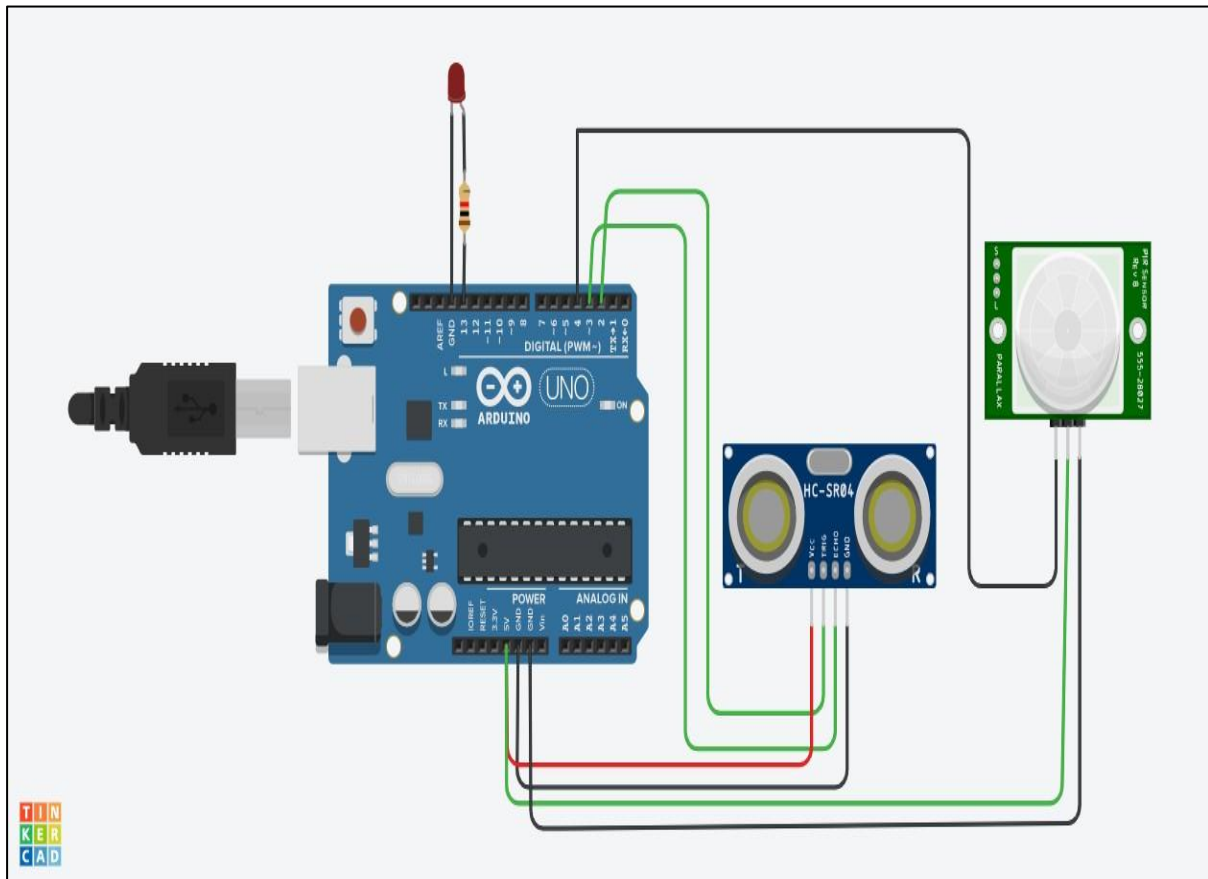
ASSIGNMENT – I

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REGISTER NUMBER: CITC1904043

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");
    }
}




    int p=digitalRead(4);
    if(p)
```