

ASSINGMENT-1

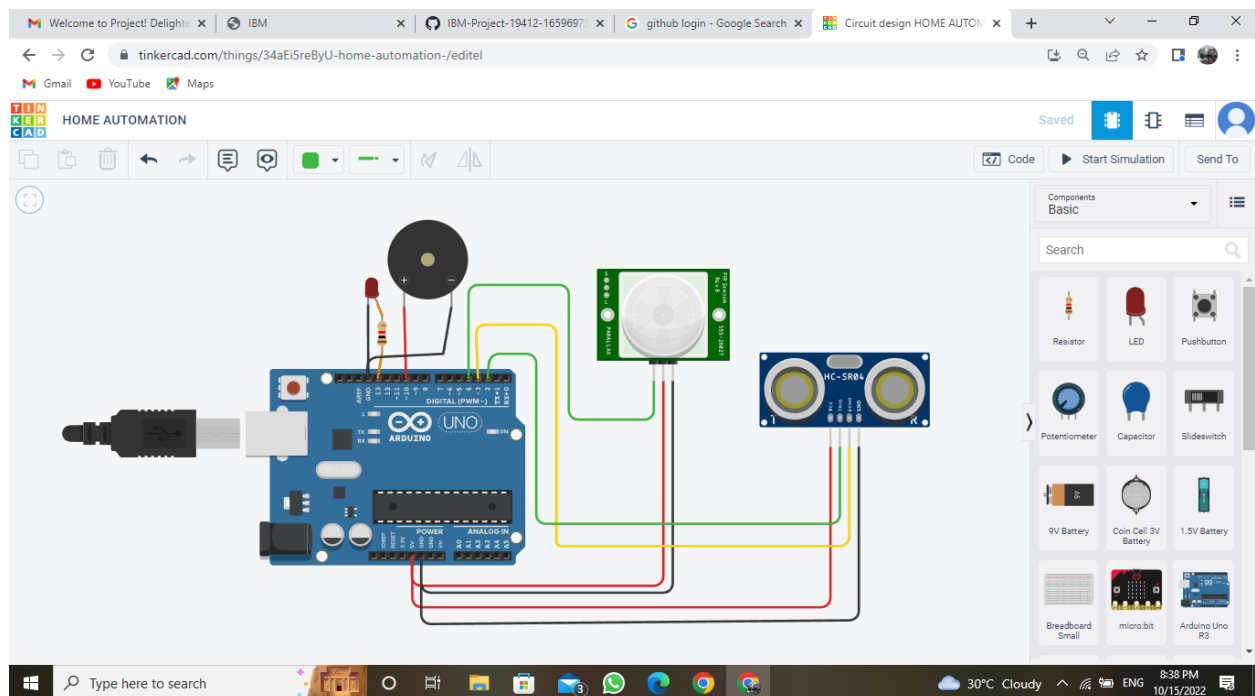
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Project Title: SMART FARMER-IOT ENABLED SMART FARMING APPLICATION

For reference: <https://www.tinkercad.com/things/34aEi5reByU>

HOME AUTOMATION



PROGRAM:

```
int trigger_pin = 2;
int echo_pin = 3;
int buzzer_pin = 10;
int time;
int distance;
void setup()
{
    pinMode(4,INPUT);
```

```
pinMode(echo_pin,INPUT);
Serial.begin(9600);
pinMode(13,OUTPUT);
pinMode(trigger_pin,OUTPUT);
pinMode(buzzer_pin,OUTPUT);
}
void loop()
{
  int p = digitalRead(4);
  digitalWrite(trigger_pin,HIGH);
  delayMicroseconds(10);
  digitalWrite(trigger_pin,LOW);
  time=pulseIn(echo_pin,HIGH);
  distance=(time * 0.034)/2;
  if(p==1)
  {
    digitalWrite(13,HIGH);
    Serial.println("Motion detected");
    Serial.println("Door Open");
    Serial.println("Distance=");
    Serial.println(distance);
    digitalWrite(buzzer_pin, HIGH);
    delay(500);
  }
  else
  {
    digitalWrite(13,LOW);
    Serial.println("Motion not detected");
```

```

Serial.println("Door Closed");

Serial.println("Distance=");

Serial.println(distance);

digitalWrite(buzzer_pin,LOW);

delay(500);

}

}

```

OUTPUT:

