ASSIGNMENT – 1

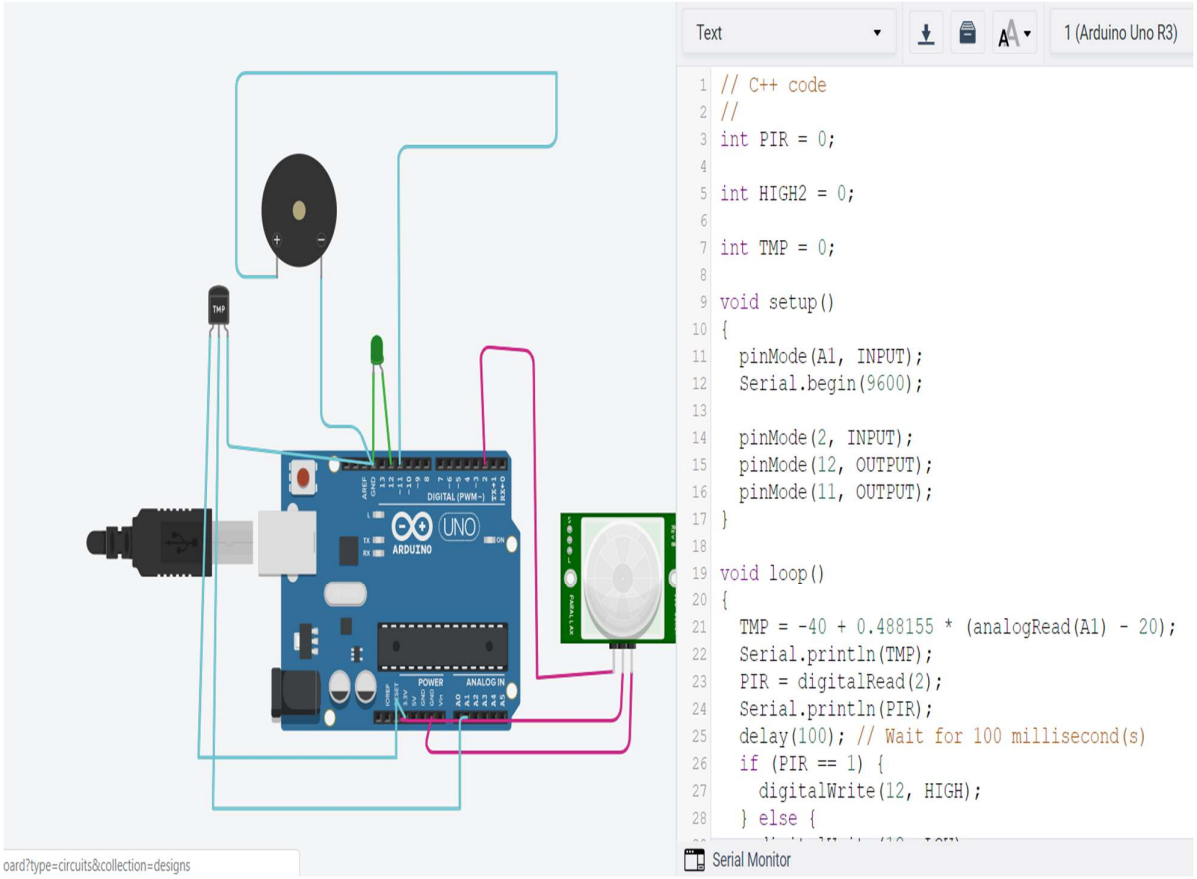
Home Automation

Assignment Date	8th September, 2022
Student Name	Deepajothi s.k
Register Number	2019504016
Maximum Marks	2Marks

Question

Home Automation using Tinkercad.

Design



Components Used

Name of the component	Quantity
Arduino ide	1
PIR Sensor	1
LED	1
Peizo	1
TMP36	1

Arduino Code

```
int PIR = 0;
int HIGH2 = 0;
int TMP = 0;
void setup()
{
  pinMode(A1, INPUT);
  Serial.begin(9600);
  pinMode(2, INPUT);
  pinMode(12, OUTPUT);
  pinMode(11, OUTPUT);
}
void loop()
{
  TMP = -40 + 0.488155 * (analogRead(A1) - 20);
  Serial.println(TMP);
  PIR = digitalRead(2);
```

```
  Serial.println(PIR);
  delay(100); // Wait for 100 millisecond(s)
  if (PIR == 1) {
    digitalWrite(12, HIGH);
  } else {
    digitalWrite(12, LOW);
  }
  if (TMP > 35) {
    digitalWrite(11, HIGH);
  } else {
    digitalWrite(11, LOW);
  }
}
```