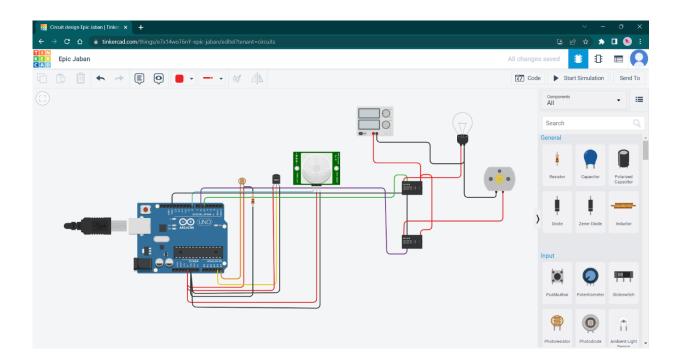
## ASSIGNMENT 1 SMART HOME USING TINKERCAD



## Arduino code for simulation in Tinkercad

```
float x,y,z,temp;
void setup()
{
    pinMode(8, INPUT);
    pinMode(5, OUTPUT);
    pinMode(6, OUTPUT);
    pinMode(A5, INPUT);
    pinMode(A4, INPUT);
    Serial.begin(9600);
}
void loop()
{
    x= digitalRead(8);
    y= analogRead(A5);
    z= analogRead(A4);
    Serial.println(x);
```

```
Serial.println(y);
Serial.println(z);
temp = (double)z / 1024;
temp = temp * 5;
temp = temp - 0.5;
temp = temp * 100;
if ((x>0))
 {
  if ((y<550)&&(temp>30))
   digitalWrite(5, HIGH);
   digitalWrite(6, HIGH);
  else if((y<550)&&(temp<30))
   digitalWrite(5, HIGH);
   digitalWrite(6, LOW);
  else if((y>550)&&(temp>30))
   digitalWrite(5, LOW);
   digitalWrite(6, HIGH);
 else if((y>550)&&(temp<30))
   digitalWrite(5, LOW);
   digitalWrite(6, LOW);
 }
else
  digitalWrite(5, LOW);
  digitalWrite(6, LOW);
}
```