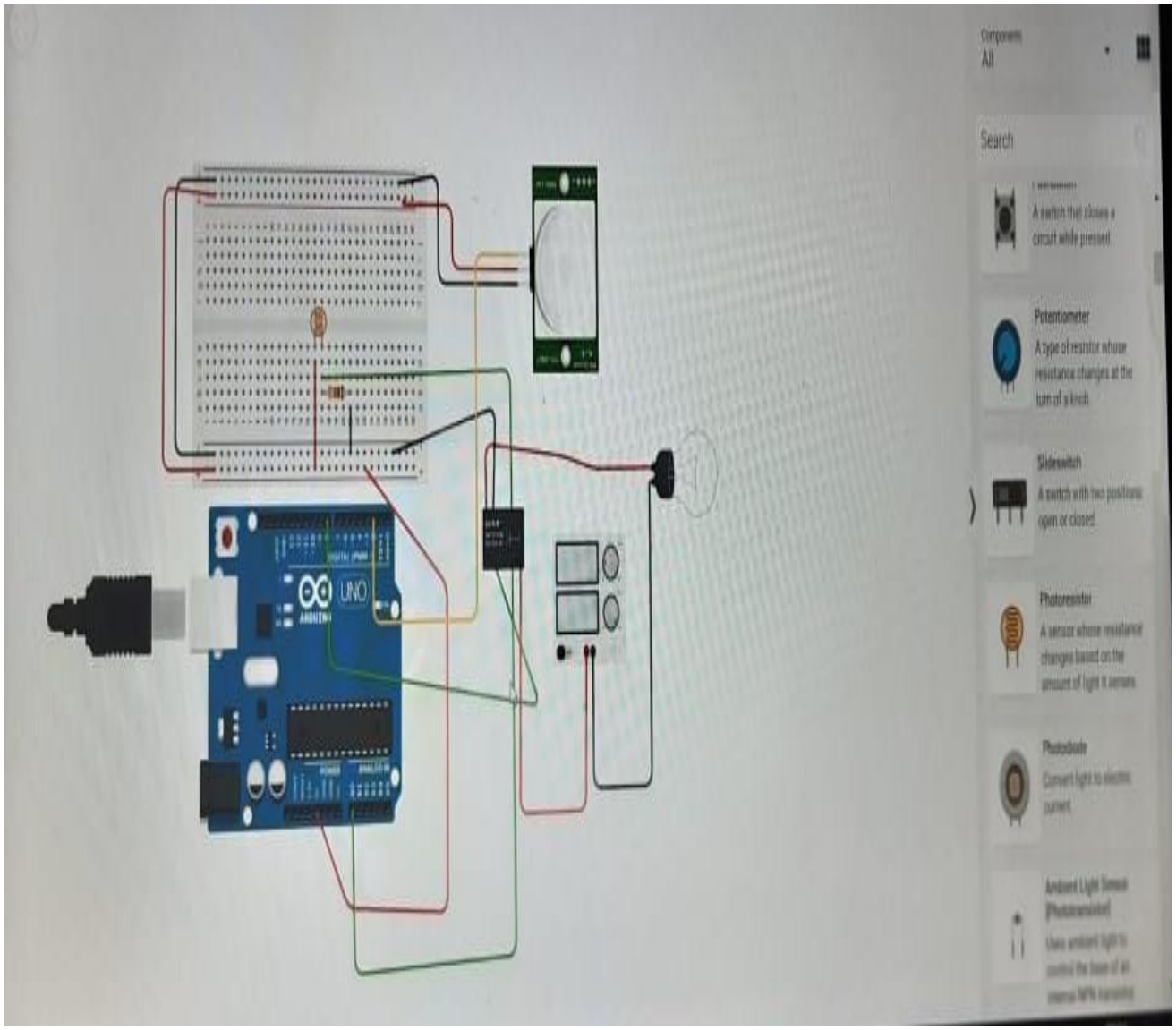
NAME: JYOTHI MANNEPALLI
ROLL NO: 2019PECEC212
REG NO: 211419106161

AUTOMATIC ROOM LIGHTENING SYSTEM USING TINKERCAD



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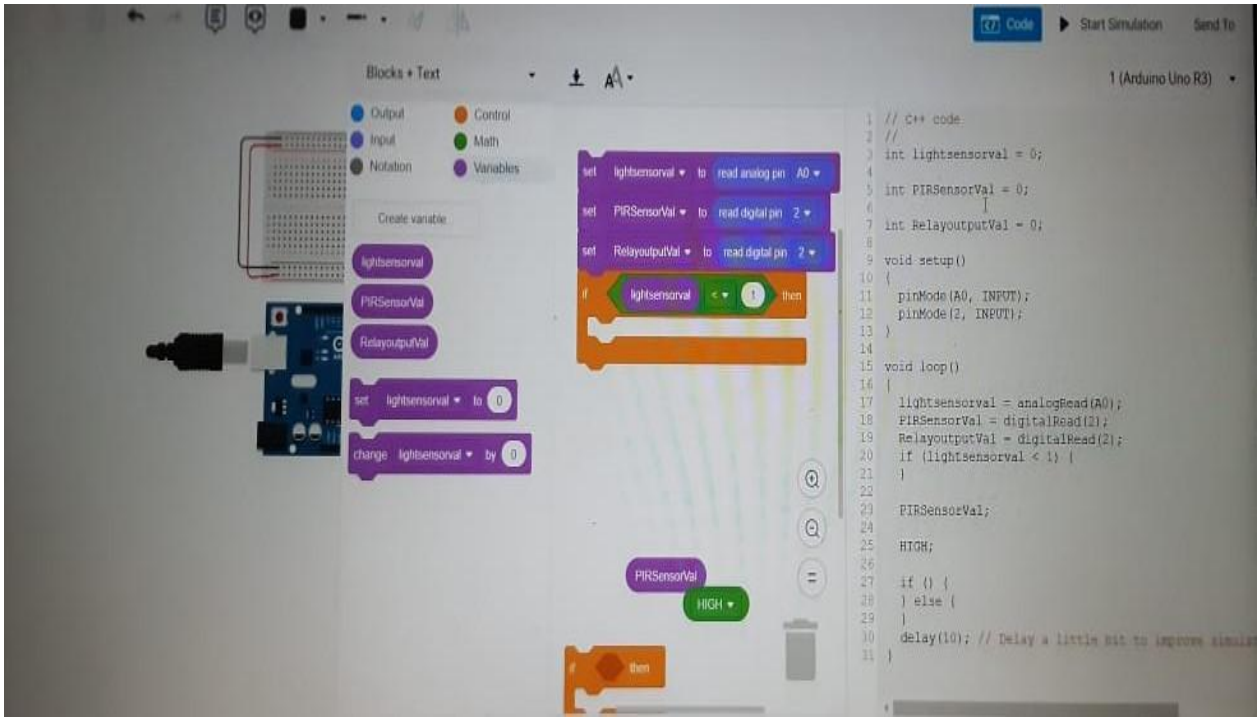

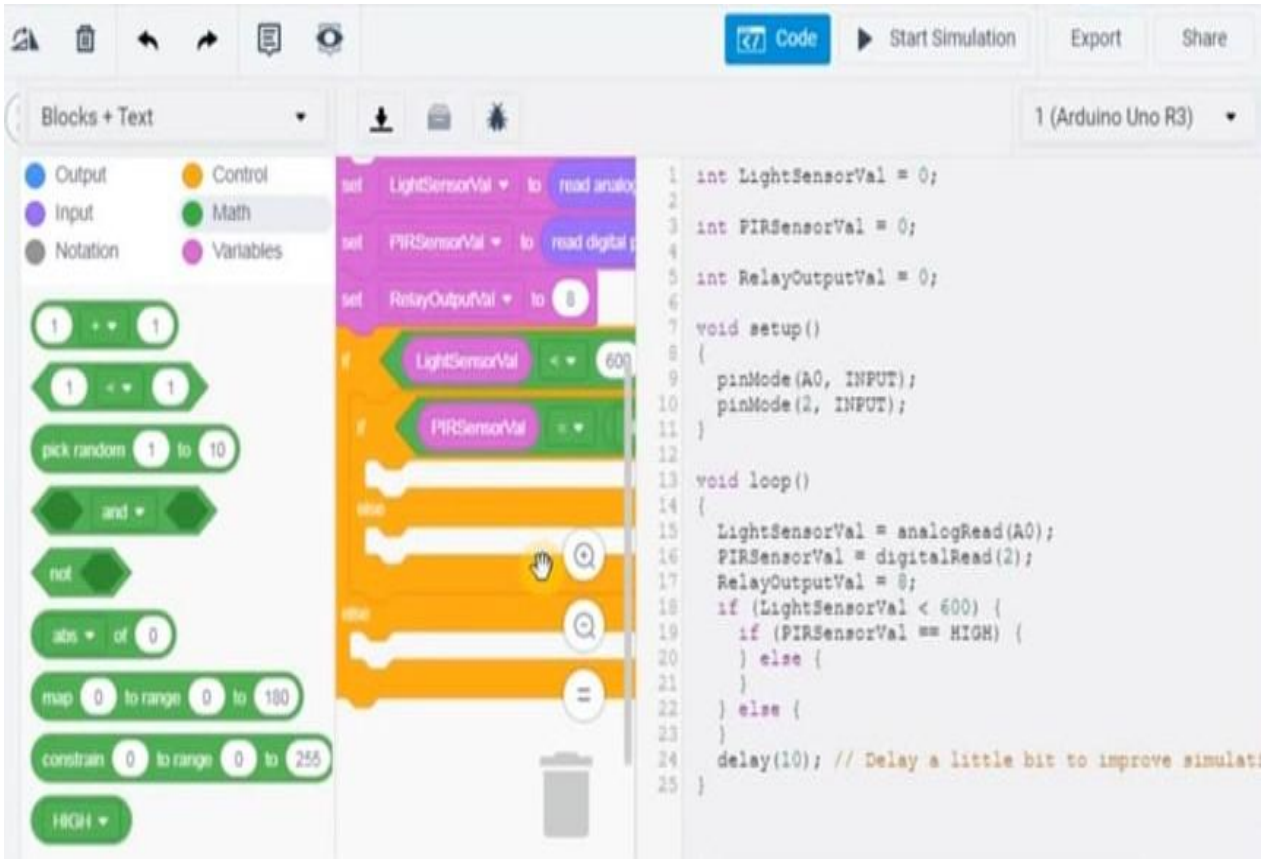

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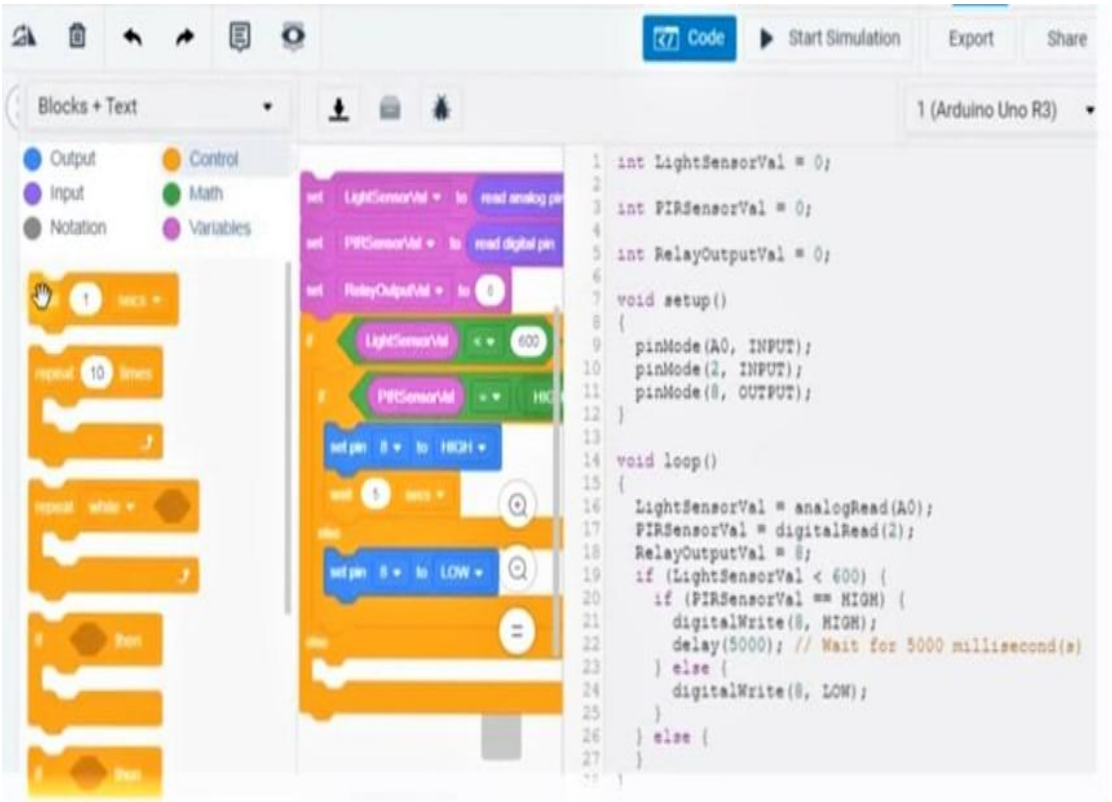

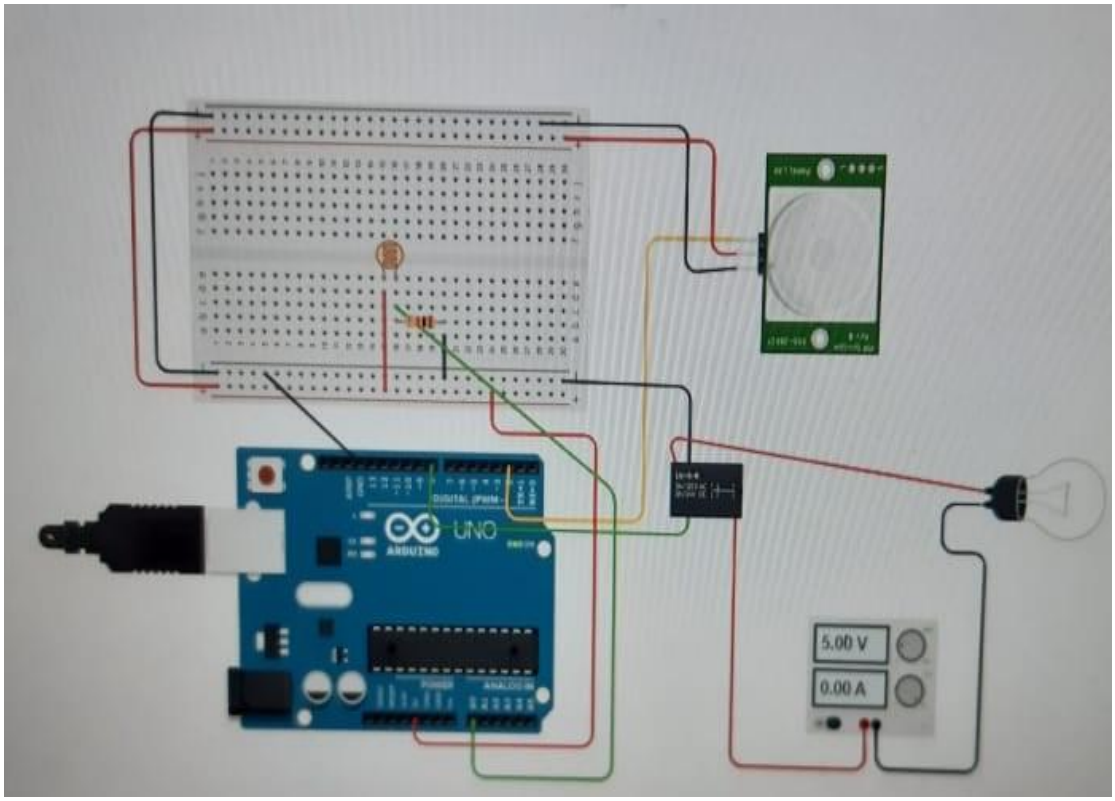

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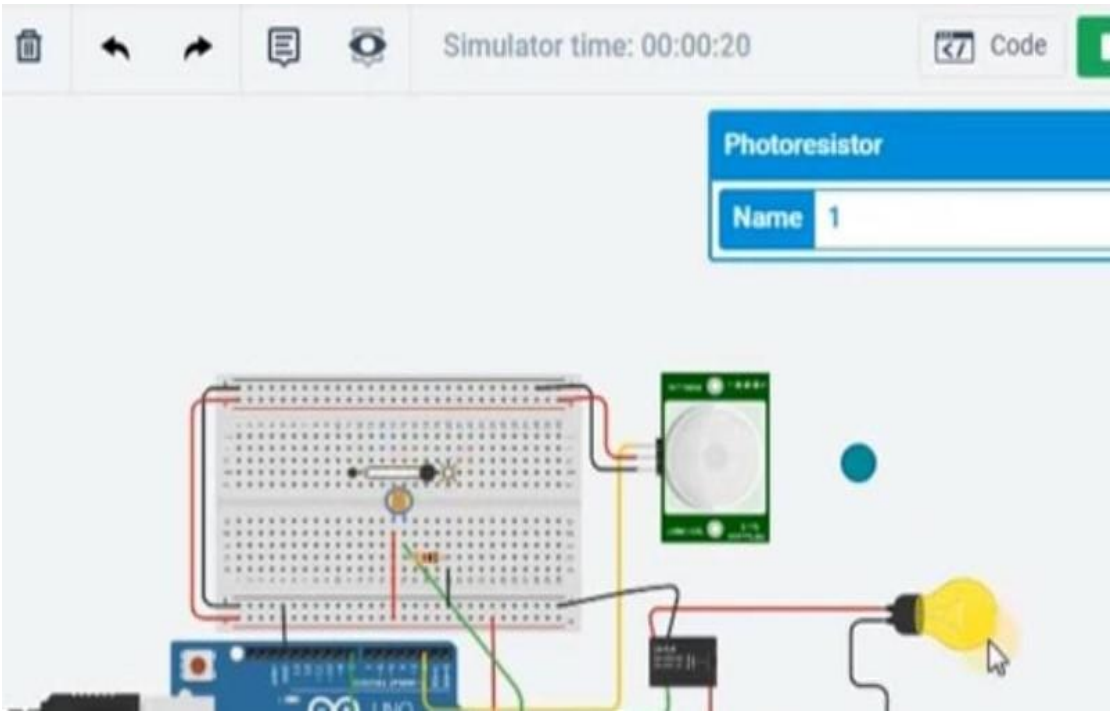
FINAL OUTPUT:



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CODE:

```
int LightSensorVal = 0;

int PIRSensorVal = 0;

int RelayOutputVal = 0;

void setup()
{
 pinMode(A0, INPUT);
 pinMode(2, INPUT);
 pinMode(8, OUTPUT);
 Serial.begin(9600);

}

void loop()
{
 LightSensorVal = analogRead(A0);
 PIRSensorVal = digitalRead(2);
 RelayOutputVal = 8;
 if (LightSensorVal < 600) {
  if (PIRSensorVal == HIGH) {
   digitalWrite(8, HIGH);
   delay(5000); // Wait for 5000 millisecond(s)
  } else {
   digitalWrite(8, LOW);
   delay(5000); // Wait for 5000 millisecond(s)
  }
 } else {
  digitalWrite(8, LOW);
  Serial.println(LightSensorVal);
  delay(300); // Wait for 300 millisecond(s)
 }
}
```