Assignment Date	9 September 2022
Student Name	Mr.Santhosh
Student Roll Number	422119106008
Maximum Marks	2 Marks

Question:

Smart home automation.

Title:

Motion detection using lamp

Solution:	

	Int LightSensor = 0; //Input Sensor
	Int PIRSensor = 0; //Input S
	Int RelayOutput = 0; //Output Relay
	Void setup()
	{
	 pinMode(A0, INPUT);
	 pinMode(2, INPUT);
	 pinMode(8, OUTPUT);
	 Serial.begin(9600);
	}
	Void loop()
	{
	 LightSensor = analogRead(A0);
	 PIRSensor = digitalRead(2);
	 RelayOutput = 8;
	 If (LightSensor < 600) {
	 If (PIRSensor == HIGH) {
	 digitalWrite(8, HIGH);
	 delay(3000); // Wait for 3000 millisecond(s)
	 } else {
	 digitalWrite(8, LOW);
	 delay(1000); // Wait for 1000 millisecond(s)
	 }
	 } else {
	 digitalWrite(8, LOW);

	Serial.println(LightSensor);
	Delay(300); // Wait for 300 millisecond(s)
	}
	}

Circuit: