ASSIGNMENT – I

DOMAIN: - IOT

TOPIC: - SMART HOME

NAME: - LOHITHA

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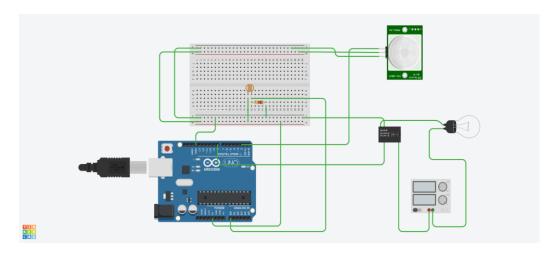
COLLEGE: - PANIMALAR OF

TECHNOLOGY

TOPIC: - AUTOMATIC ROOM

LIGHTNING SYSTEM

SMART Home Circuit Connection:



COMPONENTS

Quantity	Component	
1	Arduino Uno R3	
1	PIR Sensor	
1	5, 5 Power Supply	
1	Light Bulb	
1	Relay SPDT	
1	Photoresistor	
1	1 K Ohm Resistor	
1	Temperature sensor	

CODE

```
// C++ code
int LightSensorVal = 0;
int PIRSensorVal = 0;
int RelayOutputVal = 0;
void setup()
 pinMode(A0, INPUT);
 pinMode(2, INPUT);
 pinMode(8, INPUT);
 pinMode(8, OUTPUT);
 Serial.begin(9600);
void loop()
 LightSensorVal = analogRead(A0);
 PIRSensorVal = digitalRead(2);
 RelayOutputVal = digitalRead(8);
 if (LightSensorVal < 600) {
  if (PIRSensorVal == HIGH) {
   digitalWrite(8, HIGH);
   delay(1000); // Wait for 1000 millisecond(s)
  } else {
   digitalWrite(8, LOW);
   delay(1000); // Wait for 1000 millisecond(s)
 } else {
  digitalWrite(8, LOW);
  Serial.println(LightSensorVal);
  delay(300); // Wait for 300 millisecond(s)
```

LINK:- https://www.tinkercad.com/things/lACwqeAPbjS