

ASSIGNMENT 1

Python programming

Assignment Date	22 September 2022
Student name	A.Kalasurya
Student roll number	422719106008
Maximum Mark	2 marks

Question :

Build a smart home in Thinkercad with 2 sensors, an Led, buzzer and submit it

Code:

```
// Thinkercad Arduino : Automatic Room Lightning System
```

```
Int LightSensorVal = 0; //Input Sensor
```

```
Int PIRSensorVal = 0; //Input S
```

```
Int RelayOutputVal = 0; //Output Relay
```

```
Void setup()
```

```
{
```

```
pinMode(A0, INPUT); // Read the LDR sensor Value digital Input
```

```
pinMode(2, INPUT); // Read the PIR motion sensor value digital Input
pinMode(8, OUTPUT); // Write the Relay output value, digital 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(1000); // Wait for 1000 millisecond(s)
    }
  } else {
    digitalWrite(8, LOW);
    Serial.println(LightSensorVal);
    Delay(300); // Wait for 300 millisecond(s)
  }
}
```

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