Aim :

Design a DJ system that produces

1. Red light when a button is pressed during day.
2. Green light when a button is pressed during night.

Apparatus :

Breadboard, Arduino UNO, Red LED, Green LED, LDR, Push Button.

Code :

const int sensorPin = A0;

const int ledPin = 9;

int sensorvalue = A0;

void setup()

{

pinMode(12,OUTPUT);

pinMode(13,OUTPUT);

pinMode(4,INPUT);

Serial.begin(9600);

}

void loop()

{

int b = digitalRead(4);

sensorvalue = analogRead(sensorPin);

Serial.println(sensorvalue);

delay(100);

if (sensorvalue>0)

digitalWrite(12,LOW);

else if(b==HIGH)

digitalWrite(12,HIGH);

else if(sensorvalue=0)

digitalWrite(13,LOW);

else if(b==HIGH)

digitalWrite(13,HIGH);

}

if (lightLevel > high)

{

high = lightLevel;

}

lightLevel = map(lightLevel, low+30, high-30, 0, 255);

lightLevel = constrain(lightLevel, 0, 255);

}

Sources of Error :

Connectiond should be tight.

Syntax should be properly followed at the time of coding.

Precautions :

Components should be checked before use.

Connections should be neat and clean.