**//Code for designing an automatic night lamp.**

int sensorValue = 0; *// variable to store the value coming from the sensor*

void setup()

{

pinMode(A0,INPUT);

Serial.begin(9600); *//sets serial port for communication*

pinMode(3,OUTPUT); *//It defines that there is an output device connected at pin number 3 of the arduino board.*

}

void loop()

{ int sensorPin = A0;*//select the input pin for LDR*

sensorValue = analogRead(A0);

Serial.println(sensorValue);

delay(100);*//wait for 100 milli seconds*

if (sensorValue > 300)

{

digitalWrite(3,HIGH);*//for glowing the bulb at pin 3*

}

else

{

digitalWrite(3,LOW);*//switching off the bulb at pin3*

}

}