**TRANSMITTER**

#include <VirtualWire.h>

int x=A0;

int msg=0;

int z=8;

void setup() {

vw\_set\_tx\_pin(z); //Initilizes pin for transmitter

vw\_set\_ptt\_inverted(true); //Start the communication

pinMode(x,INPUT); //Initializing the pin for phototransistor

vw\_setup(2000); //Initializing the speed of bits per second

}

void loop() {

msg = analogRead(A0);

vw\_send((byte \*) &msg, sizeof(msg)); //Sending a message with its given length

vw\_wait\_tx(); //Waits until the message is sent completely

}

**RECIEVER**

#include <VirtualWire.h>

Int x=11;

Int y=0;

void setup() {

pinMode(x,OUTPUT); //Initializing the pin for LED

Serial.begin(9600); //Specifying baud rate

vw\_setup(2000); //Initializing the speed of bits per second

vw\_rx\_start(); //Start the reciever

Serial.println("Value : ");

}

void loop() {

int msg;

byte length = sizeof(int);

vw\_wait\_rx();

if (vw\_get\_message((byte \*) &msg, &length)) {

Serial.println(msg);

y = map(msg,0,1024,0,180);

analogWrite(x,y); //blinking the LED as per data recieved

}

}