IR module test

* We used IR sensor array for line sensing. It is array of five IR sensors with 5 digital outputs.
* It gives 0 & 1 signals for black and white colour respectively .
* We performed functionality test for this module.
* By interfacing the IR array to arduino uno board we transmitted the signal on serial terminal of pc.
* And checked the outputs by moving the sensor array on black and white bagrounds.

Connections

|  |  |
| --- | --- |
| IR module | Arduino uno |
| Sensor1 | 8 |
| Sensor2 | 9 |
| Sensor3 | 10 |
| Sensor4 | 11 |
| Sensor5 | 12 |
| VCC | +5V |
| GND | GND |

////??????screenshot of serial monitor

Test program

const int mod1 = 8;

const int mod2 = 9;

const int mod3 = 10;

const int mod4 = 11;

const int mod5 = 12;

unsigned long int val = 0b00000000; //variable to store sensor data

void serialprint()

{

Serial.println(PINB, BIN);

Serial.println("\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_");

}

void setup()

{

Serial.begin(9600); //set baudrate 9600

DDRB = 0x00; // make port B as output

delay(1000);

}

void loop()

{

serialprint(); //send sensor values on serial terminal

uint8\_t val = PINB; //copy the sensor values in a variable

}