**Arduino Course Begineer to Advance**

Prob1: How to Blink LED

// the setup function runs once when you press reset or power the board

void setup() {

// initialize digital pin LED\_BUILTIN as an output.

pinMode(13, OUTPUT);

}

// the loop function runs over and over again forever

void loop() {

digitalWrite(13, HIGH); // turn the LED on (HIGH is the voltage level)

delay(1000); // wait for a second

digitalWrite(13, LOW); // turn the LED off by making the voltage LOW

delay(1000); // wait for a second

}

Prob2: Blink 3 LED With Arduino

int led1= 13;

int led2=12;

int led3=11;

void setup() {

pinMode(led1, OUTPUT);

pinMode(led2, OUTPUT);

pinMode(led3, OUTPUT);

}

void loop() {

digitalWrite(led1, HIGH);

delay(200);

digitalWrite(led2, HIGH);

delay(200);

digitalWrite(led3, HIGH);

delay(200);

digitalWrite(led1, LOW);

delay(300);

digitalWrite(led2, LOW);

delay(300);

digitalWrite(led3, LOW);

delay(300); }

Prob3: Blink led series Using Arduino

int led1= 13;

int led2=12;

int led3=11;

int led4=10;

void setup() {

pinMode(led1, OUTPUT);

pinMode(led2, OUTPUT);

pinMode(led3, OUTPUT);

pinMode(led4, OUTPUT);

}

void loop() {

digitalWrite(led1, HIGH);

delay(1000);

digitalWrite(led2, HIGH);

delay(1000);

digitalWrite(led3, HIGH);

delay(1000);

digitalWrite(led4, HIGH);

delay(1000);

digitalWrite(led1, LOW);

delay(100);

digitalWrite(led2, LOW);

delay(200);

digitalWrite(led3, LOW);

delay(300);

digitalWrite(led4, LOW);

delay(400);

}

**PROB4: IDR SENSOR USING AND MAKE LIGHT ON OFF**

const int led=13;

const int idr=A0;

void setup() {

pinMode(led, OUTPUT);

pinMode(idr, INPUT);

Serial.begin(9600);

}

// the loop function runs over and over again forever

void loop() {

int idrstatus = analogRead(idr);

if(idrstatus<=30){

digitalWrite(led, HIGH);

Serial.println("LDR is Drark, LED is On");

}

else{

digitalWrite(led, LOW);

Serial.println("---------------");

}

}