2025-1-RO01-KA121-VET-000319082

4IT Erasmus+Project, 2025-1-RO01-KA121-VET-000319082

Beneficiary: "Gheorghe Vranceanu" National College, Bacau

Sending organization: "Gheorghe Vranceanu" National College, Bacau

MOBILITY PORTFOLIO

Valencia, Spain

Mobility period 24.10.2025- 06.11.2025

Practice period: 25.10.2025-05.11.2025

RECEIVING COMPANY: COMPACSERVER S.L.

Practice tutor: Joel Gómez Padial

Participant: CIOCAN-ANDRONIC EDUARD-ANDREI

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Sectiunea 1 - Site





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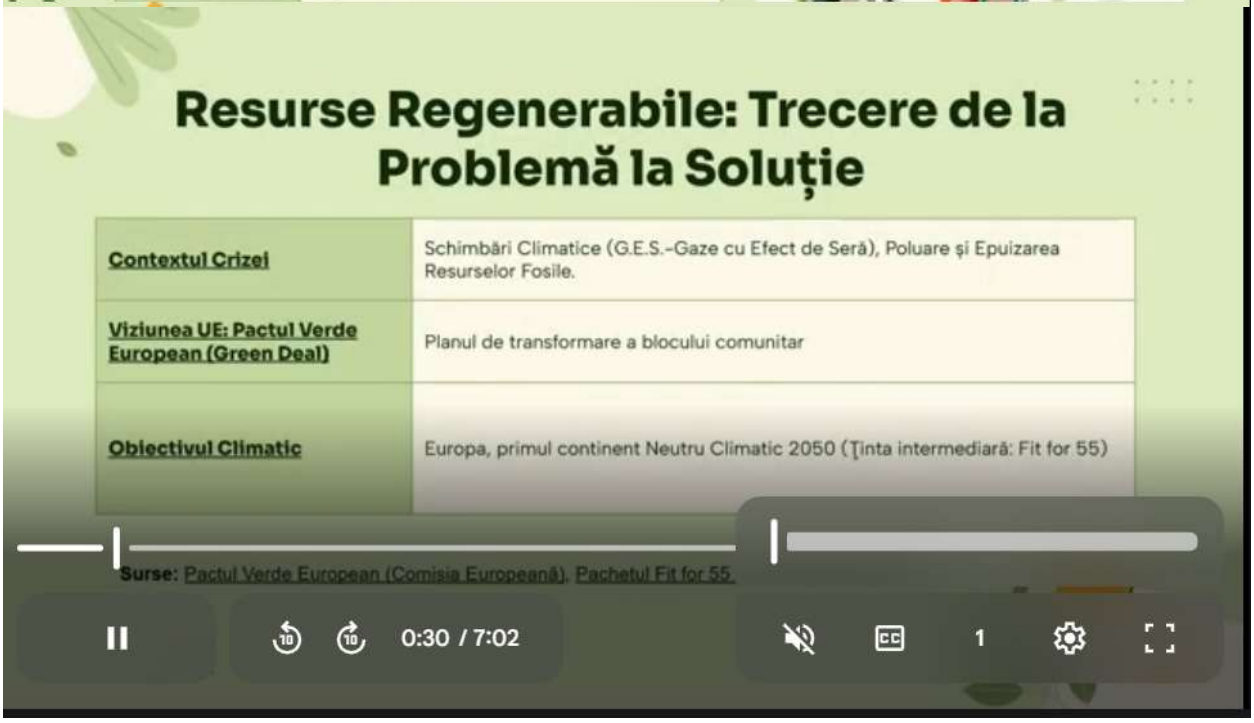


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Pregatire culturala





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Economia circulară - 4R

- Economia circulară este un model economic bazat pe ideea de reutilizare, reparație, refabricare și reciclare a materialelor și produselor existente. Obiectivul principal este de a reduce risipa și de a menține valoarea resurselor cât mai mult timp în economie.
- Spre deosebire de modelul liniar clasic (care presupune extragerea materiilor prime, fabricarea produselor, utilizarea lor și apoi eliminarea ca deșeuri), economia circulară imită sistemele naturale, în care nimic nu se pierde, ci totul este reintegrat în ciclul vieții.

SAVE PLANTS

NO GAS

RECYCLING

NO PLASTIC











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PROIECT-PILOT

EcoStart – Afacerea verde a elevilor

- Descriere generală:

- EcoStart este un proiect-pilot desfășurat în cadrul școlii, în care elevii sunt încurajați să:

1) Colecteze materiale reciclabile (plastic, hârtie, textile, doze, lemn etc.);

2) Redesign: Transformă aceste materiale în produse utile sau decorative, precum:
- decorațiuni eco;
- penare realizate din materiale textile reciclate;
- ghivece din PET-uri sau cutii metalice;
- suporturi de birou sau obiecte de organizare;

3) Vânzare la un târg școlar:
- Se organizează un EcoTârg în curtea școlii sau într-un spațiu comun;
- Elevii se ocupă de promovarea, amenajarea standurilor și vânzarea produselor;
- Se pot crea echipe cu roluri: producători, designeri, vânzători, comunicatori;

4) Reinvestirea profitului:
- Banii obținuți sunt folosiți pentru activități ecologice, cum ar fi:
- plantări de copaci și flori în curtea școlii sau în comunitate;
- campanii de conștientizare (afișe, pliante, clipuri video);
- acțiuni de ecologizare a parcurilor sau zonelor verzi.

- *Scopul proiectului:*

Promovarea antreprenoriatului responsabil, educației ecologice și creativității în rândul elevilor, prin valorificarea materialelor reciclabile în mod sustenabil.

Tara:	Ce este:	Rezultate:	Factor de succes:
Germania	Politica germană pentru tranziția de la energia pe bază de cărbune și nucleară către surse regenerabile.	• Ponderea energiei regenerabile în producția de electricitate a ajuns la peste 45% în 2022. • Creștere a investițiilor în energie solară și eoliană. • Reducerea emisiilor de CO_2 în sectorul energetic.	Subvenții pentru energie regenerabilă, legislație clară și participare activă a comunităților locale
Suedia	Suedia a introdus o taxă pe carbon încă din 1991 și a investit masiv în transport public și biciclete.	• Reducerea emisiilor de CO_2 per capita, chiar dacă economia a continuat să crească. • Creșterea utilizării transportului public și a vehiculelor electrice.	Politici fiscale coerente și stimulente pentru tehnologii ecologice.
Danemarca	Investiții în energie eoliană și politici care încurajează energia verde.	• Aproape 50% din energia electrică provine din eoliene (2022). • Danemarca este lider mondial în exportul de tehnologie eoliană.	Suport politic constant, cercetare și dezvoltare și implicarea comunităților locale.
Olanda	Olanda a investit în sisteme de diguri, canale și „parcuri inundabile" pentru a preveni inundațiile și a proteja biodiversitatea.	Reducerea riscului de inundații. Crearea de habitate pentru păsări și alte specii acvatice.	• Planificare pe termen lung și integrarea soluțiilor ecologice în infrastructură

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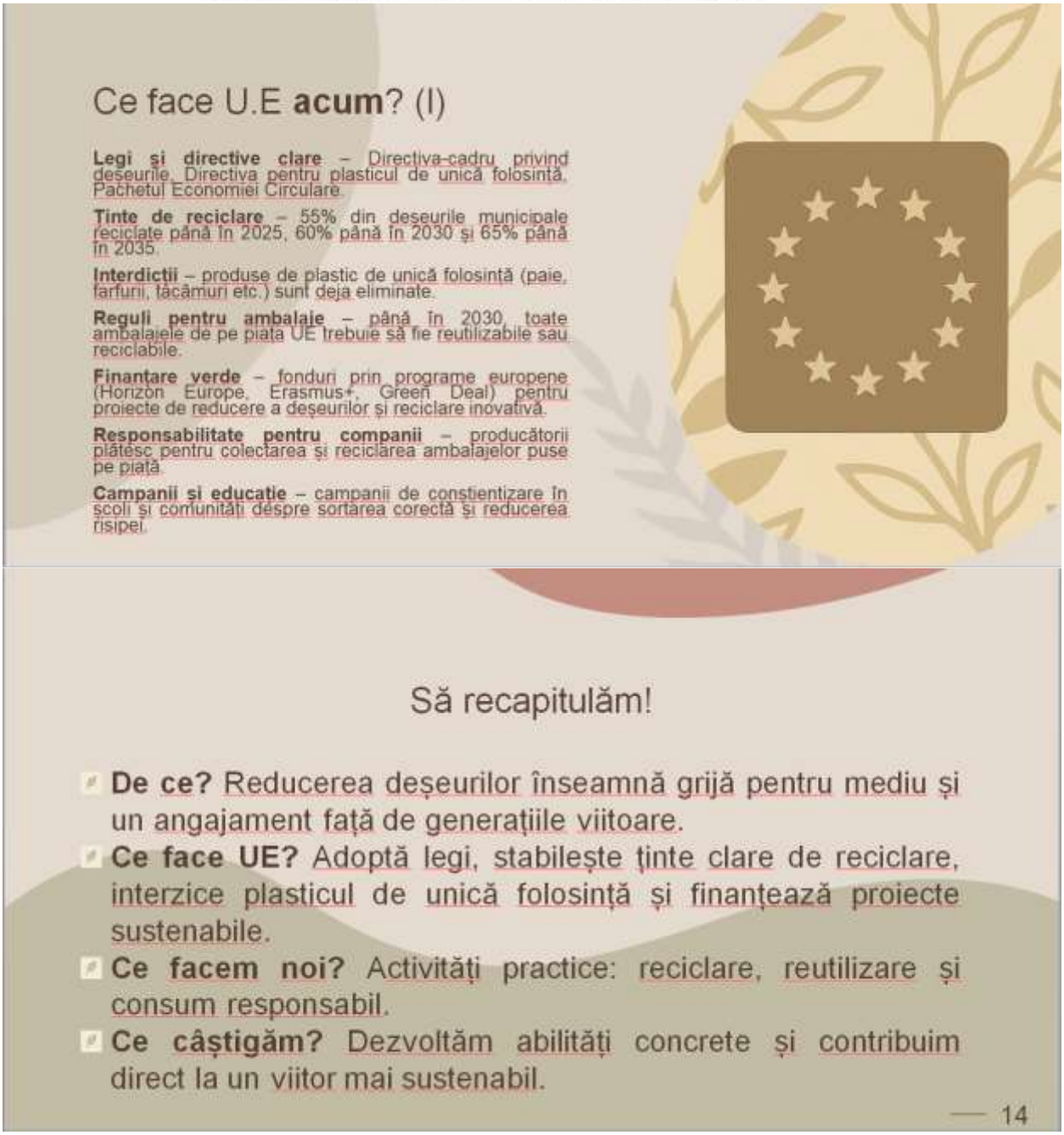
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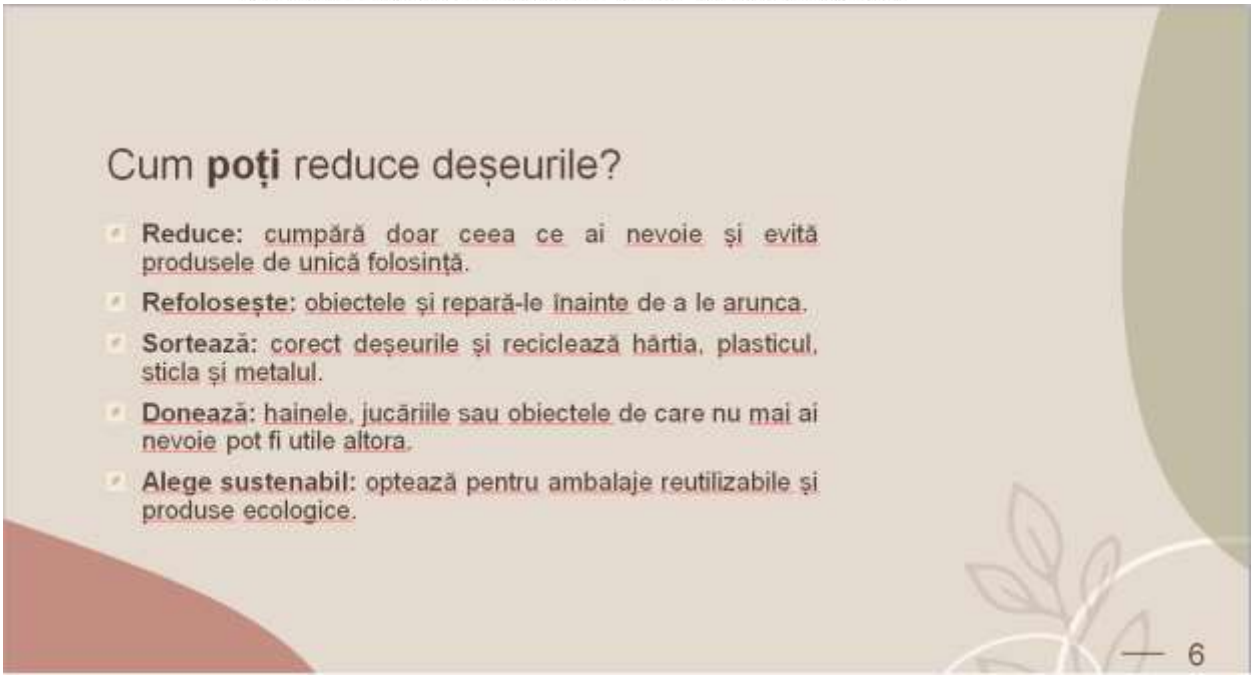
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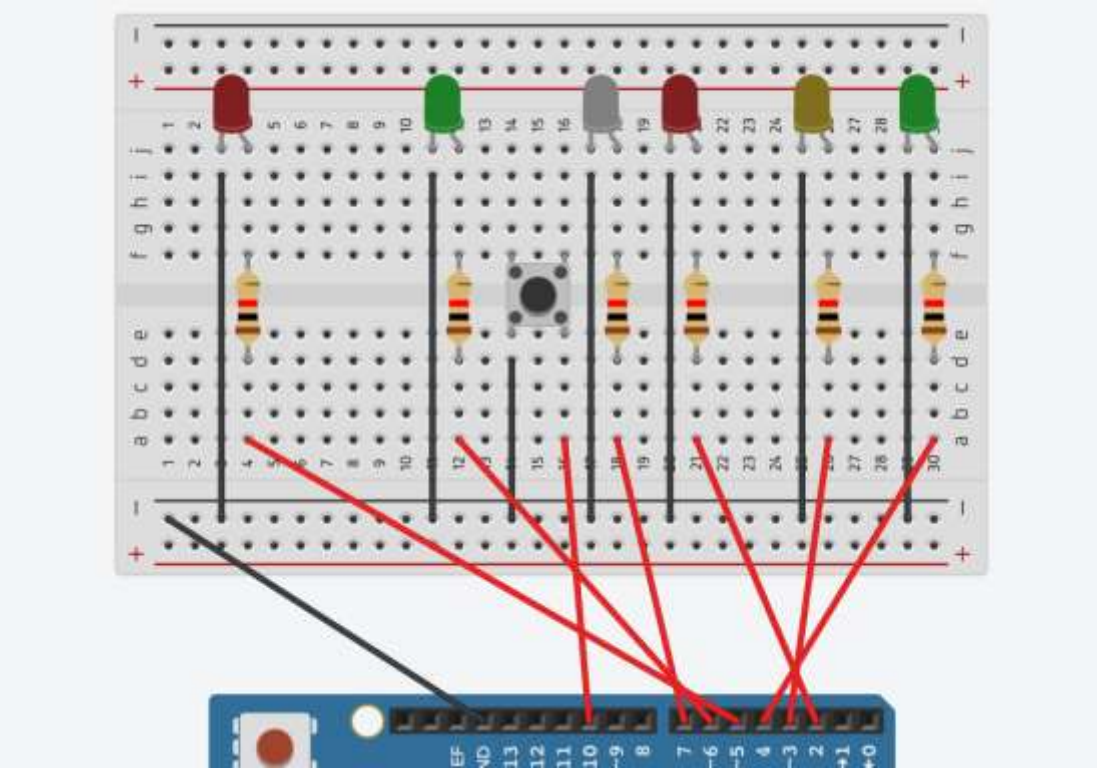
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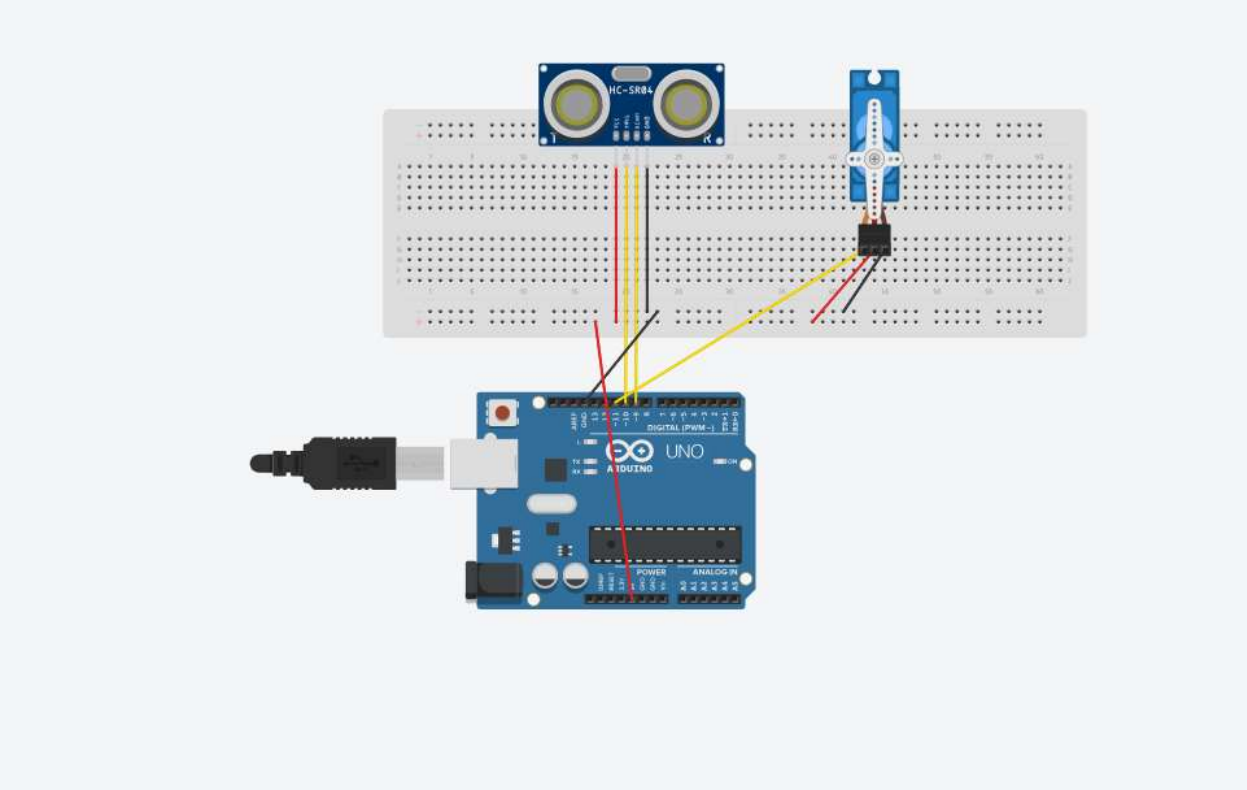
Sectiunea II – Produsul final



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```
    digitalWrite(LED1,HIGH);
    digitalWrite(LED2, HIGH);
    delay(1000);
  }
  else
  {
     digitalWrite(buzz,LOW);
    digitalWrite(LED1,LOW);
    digitalWrite(LED2, LOW);
    lcd.clear();
    lcd.setCursor(0,0);
    lcd.print("L: ");
    lcd.print(ConValue);
    lcd.print(" % ");
    lcd.print("H: ");
    lcd.print(humidity);
    lcd.print(" % ");
    lcd.setCursor(0,1);
    lcd.print("T: ");
    lcd.print(temperature);
    lcd.print(" ºC ");
    lcd.print(" No P");
    delay(1000);
    }
  }

```

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final.ino

```
  AlarmfromHum = true;
  ExistAlarm = true;
}
//check the PIR sensor
if(digitalRead(PIR)== HIGH)
{
  AlarmfromPresence = true;
  ExistAlarm = true;
}
if (ExistAlarm)
{
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("ALARM!!!!!!");
  lcd.setCursor(0,1);
  if(AlarmfromPresence)
  {
    lcd.print("P ");
  }
  if(AlarmfromTemp)
  {
    lcd.print("T ");
  }
  if(AlarmfromHum)
  {
    lcd.print("H ");
  }
  if(AlarmfromLight)
  {
    lcd.print("L ");
  }
  digitalWrite(buzz,HIGH);
  digitalWrite(LED1,HIGH);
  digitalWrite(LED2, HIGH);
  delay(1000);
}
```

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```
36  pinMode(LED2, OUTPUT);
37  pinMode(buzz, OUTPUT);
38  pinMode(PIR, INPUT);
39  pinMode(LDR, INPUT);
40  pinMode(sensor, INPUT);
41  lcd.begin(16,2);
42  }
43
44  void loop() {
45    ExistAlarm = false;
46    AlarmfromTemp = false;
47    AlarmfromHum = false;
48    AlarmfromLight = false;
49    AlarmfromPresence = false;
50    // check the LDR sensor
51
52  int Value = analogRead(LDR);
53  int ConValue = map(Value, 0 , 1023, 100, 0);
54  if(ConValue < MinLight || ConValue > MaxLight)
55  {
56    AlarmfromLight = true;
57    ExistAlarm = true;
58  }
59  // check DHT sensor
60  byte temperature = 0;
61  byte humidity = 0;
62  byte data[40] = {0};
63  DHT.read(sensor, &temperature, &humidity, data);
64  if(temperature < MinTemp || temperature > MaxTemp)
65  {
66    AlarmfromTemp = true;
67    ExistAlarm = true;
68  }
69  if(humidity < MinHum || humidity > MaxHum)
70  {
71    AlarmfromHum = true;
```

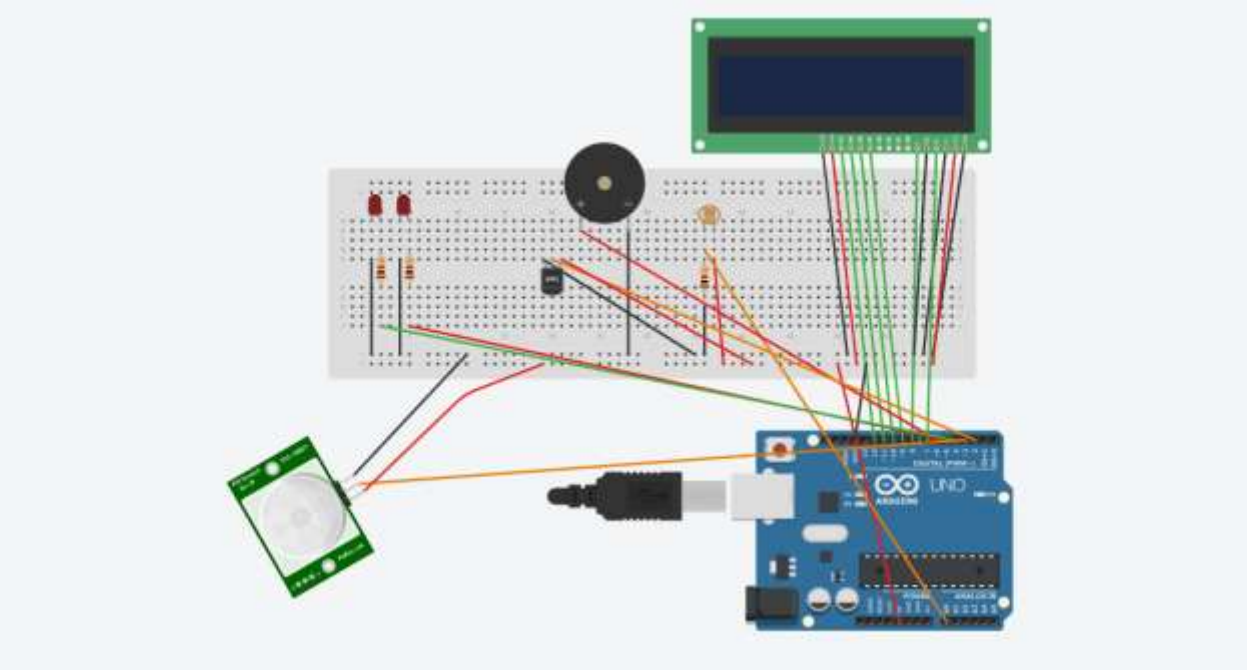
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final.ino

```
#include<LiquidCrystal.h>
#include<SimpleDHT.h>
#define sensor 2
#define LDR A0
#define PIR 3
#define LED1 4
#define LED2 5
#define buzz 6
#define PIN1 7
#define PIN2 8
#define PIN3 9
#define PIN4 10
#define PIN5 11
#define PIN6 12
#define MinTemp 10
#define MaxTemp 35
#define MinHum 5
#define MaxHum 80
#define MinLight 15
#define MaxLight 90
LiquidCrystal lcd(PIN1,PIN2,PIN3,PIN4,PIN5,PIN6);
SimpleDHT11 DHT;
bool ExistAlarm;
bool AlarmfromTemp;
bool AlarmfromHum;
bool AlarmfromLight;
bool AlarmfromPresence;
void setup() {
 pinMode(PIN1, OUTPUT);
 pinMode(PIN2, OUTPUT);
 pinMode(PIN3, OUTPUT);
 pinMode(PIN4, OUTPUT);
 pinMode(PIN5, OUTPUT);
 pinMode(PIN6, OUTPUT);
pinMode(LED1, OUTPUT);
pinMode(LED2, OUTPUT);
```

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