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:

Bejenaru Codrut-Andrei

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Sectiunea 1:





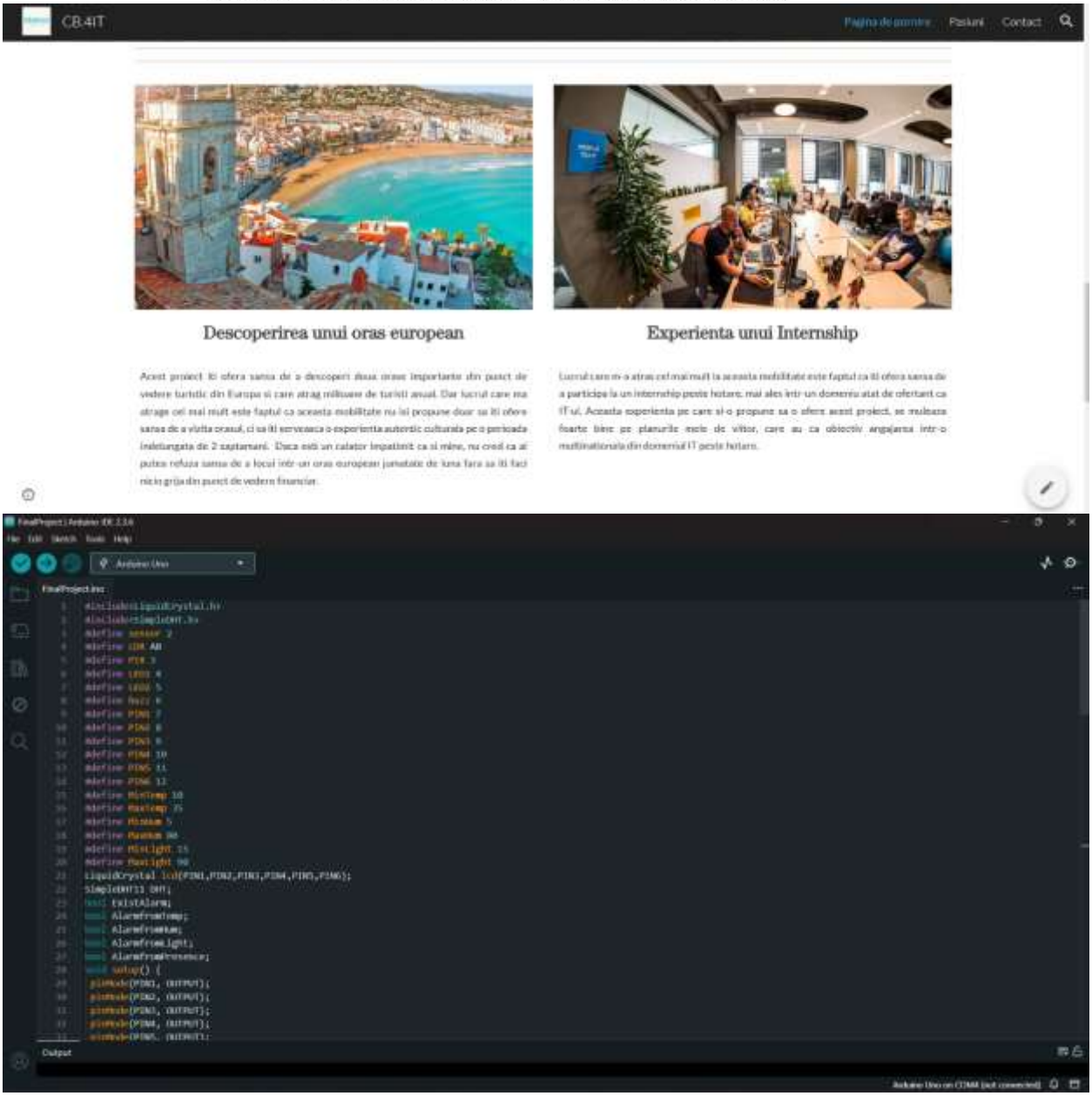


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Pregătire culturală:

1)Comportament sustenabil și protecția mediului:

a) Reducerea deșeurilor:

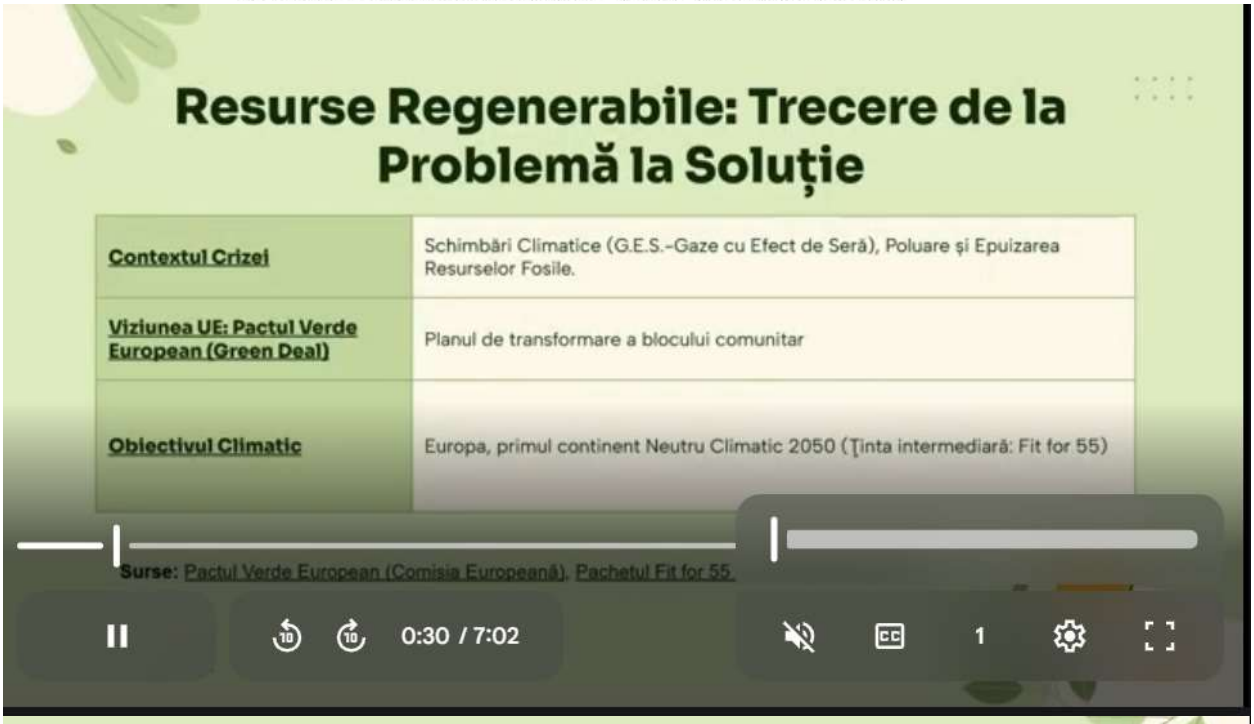
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1b) utilizarea resurselor regenereabile:

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2)Diversitate culturală și combaterea discriminării:

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3)Competențe cheie Europene:



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4)Valencia - prezentare generală:



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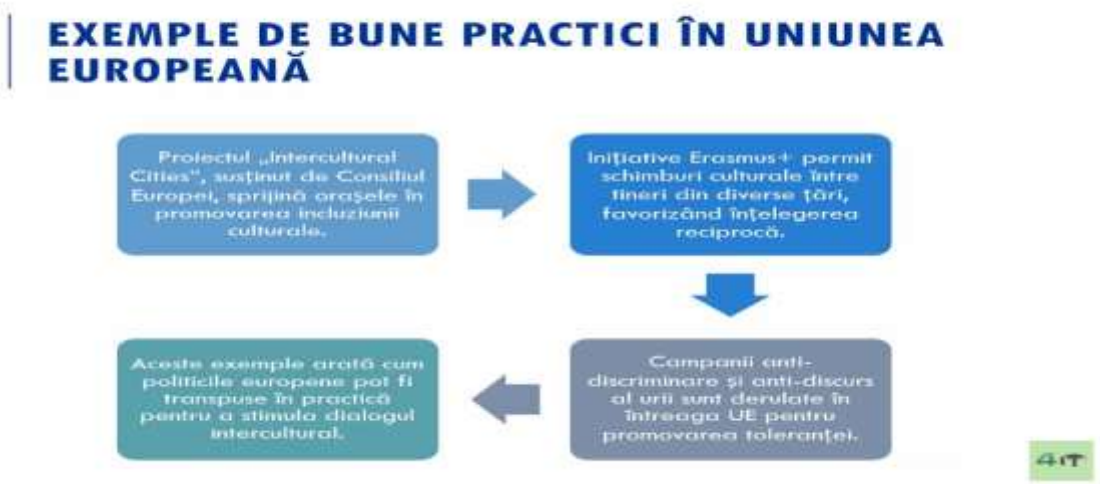


5)Diversitatea Culturală și Combaterea Discriminării:



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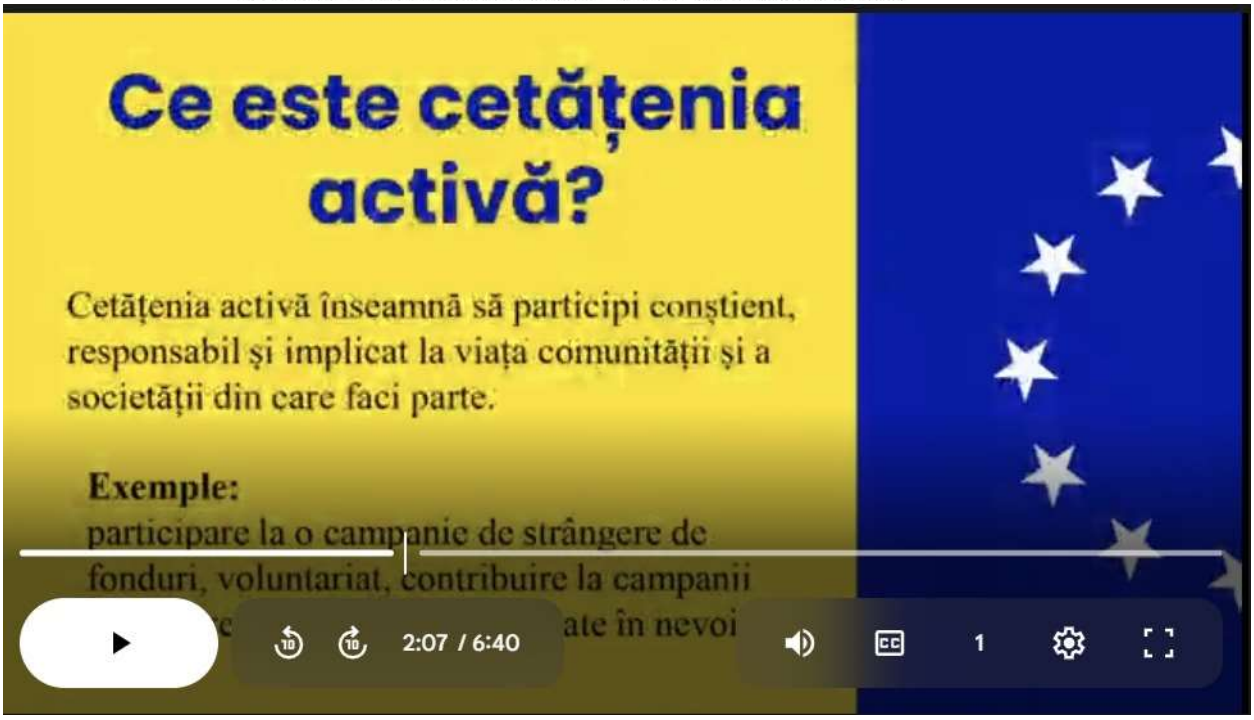
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6)Valori europene, cetatenie activa si implicare democratica:



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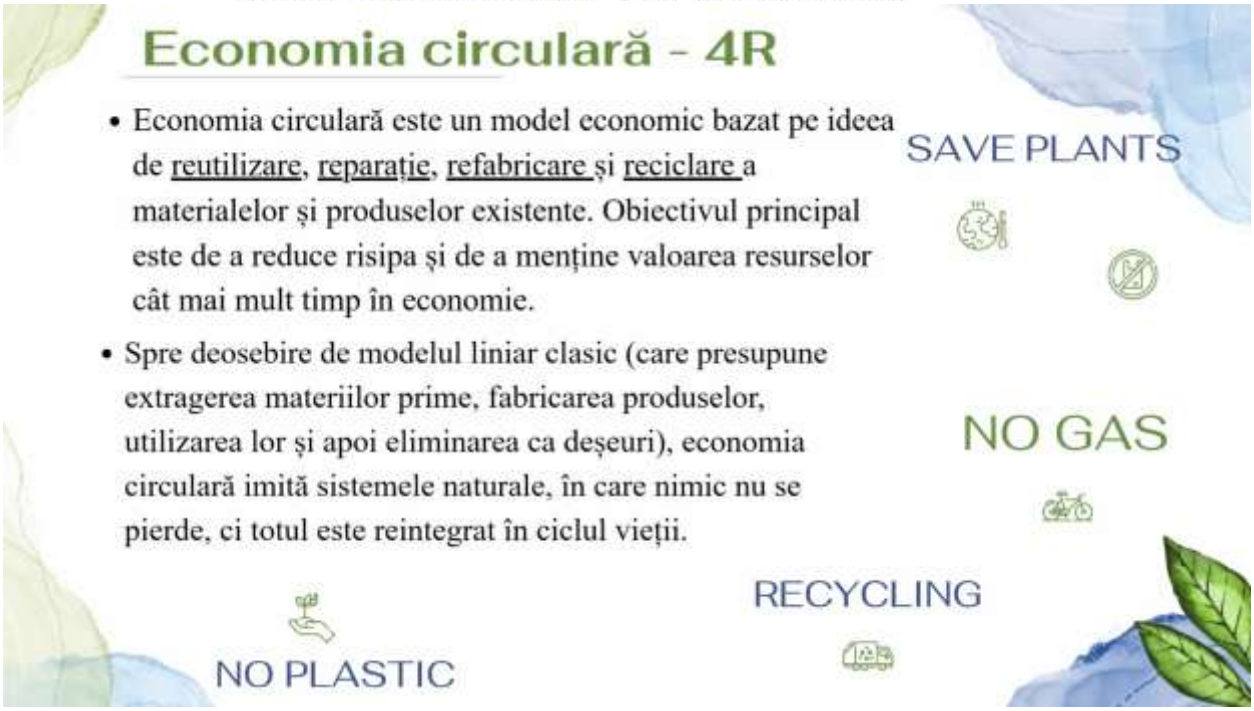


7)Dezvoltare durabila si antreprenoriat: economia circulara:



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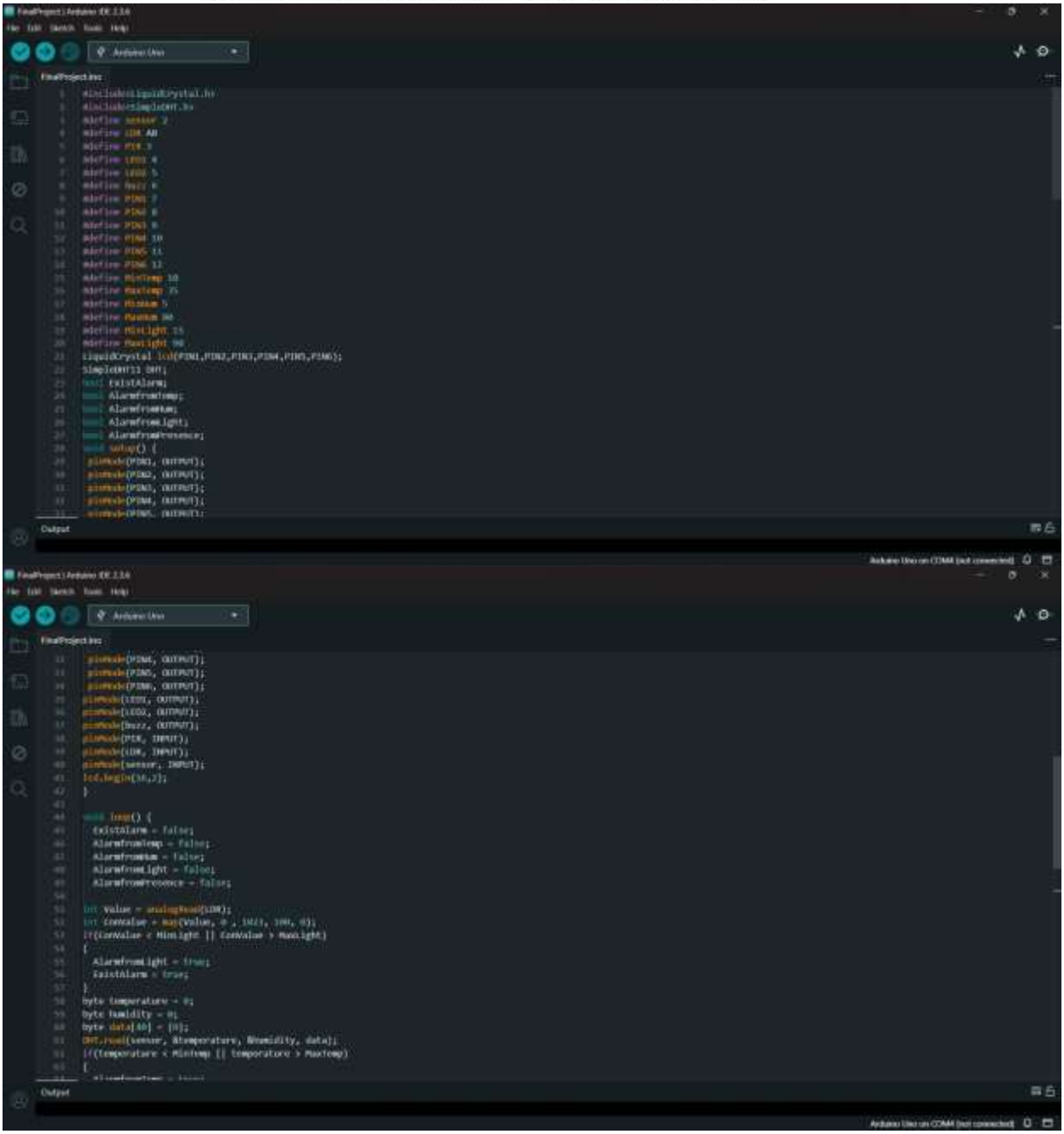
Sectiunea 2:Home station Controle

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```
#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 25
#define Minsum 5
#define Maxsum 30
#define MinLight 15
#define MaxLight 90
LiquidCrystal lcd(PIN1,PIN2,PIN3,PIN4,PIN5,PIN6);
SimpleDHT11 DHT;
bool ExistAlarm;
bool AlarmfromTemp;
bool AlarmfromSum;
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);
 pinMode(Buzz, OUTPUT);
 pinMode(PIR, INPUT);
 pinMode(LDR, INPUT);
 pinMode(sensor, INPUT);
 lcd.begin(16,2);
}

void loop() {
  ExistAlarm = false;
  AlarmfromTemp = false;
  AlarmfromSum = false;
  AlarmfromLight = false;
  AlarmfromPresence = false;

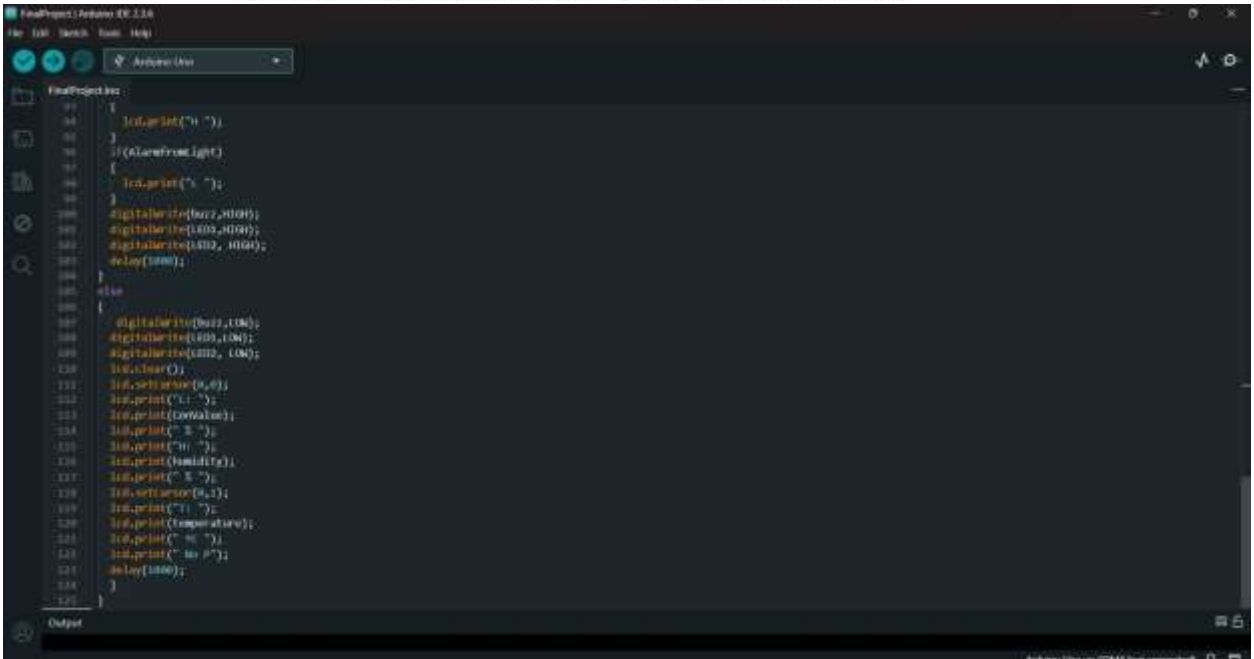
int Value = analogRead(LDR);
int ConValue = map(Value, 0 , 1023, 100, 0);
if(ConValue < MinLight || ConValue > MaxLight)
{
  AlarmfromLight = true;
  ExistAlarm = true;
}
byte Temperature = 0;
byte Humidity = 0;
byte data[40] = {0};
DHT.read(sensor, &Temperature, &Humidity, data);
if(Temperature < MinTemp || Temperature > MaxTemp)
{
```

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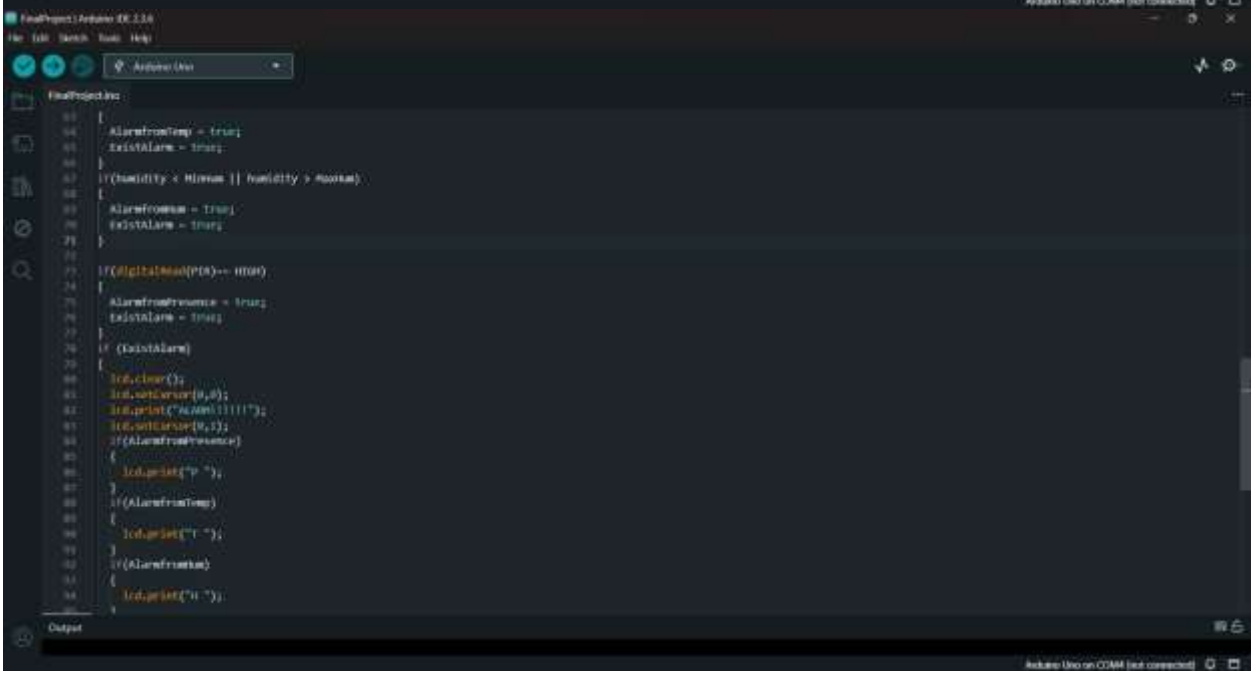
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```
  {
    lcd.print("H ");
  }
  if(AlarmfromLight)
  {
    lcd.print("L ");
  }
  digitalWrite(Buzz,HIGH);
  digitalWrite(LED3,HIGH);
  digitalWrite(LED2, HIGH);
  delay(1000);
 }
 else
 {
   digitalWrite(Buzz,LOW);
  digitalWrite(LED3,LOW);
  digitalWrite(LED2, LOW);
  lcd.clear();
  lcd.setCursor(0,0);
  lcd.print("L: ");
  lcd.print(CoValue);
  lcd.print(" % ");
  lcd.print("H: ");
  lcd.print(Humidity);
  lcd.print(" % ");
  lcd.setCursor(0,1);
  lcd.print("T: ");
  lcd.print(Temperature);
  lcd.print(" *C ");
  lcd.print(" Bo P");
  delay(1000);
  }
}
```



```
  {
   AlarmfromTemp = true;
   ExistAlarm = true;
  }
  if(Humidity < Minimum || Humidity > Maximum)
  {
   AlarmfromHum = true;
   ExistAlarm = true;
  }

  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 ");
   }
```

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