2025-1-RO01-KA121-VET-000319082

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

Beneficiary: "Gheorghe Vranceanu" National College, Bacau

Sending organization: "Ferdinand I" National College, Bacau

MOBILITY PORTFOLIO

Paphos,Cyprus

Mobility period 28.10.2025- 10.11.2025

Practice period: 29.10.2025-08.11.2025

RECEIVING COMPANY: LAZAROU ICT PROFESSIONALS

Practice tutor: Lazaros Lazarou

Participant: Focsa Teodor-Mihai

DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

2025-1-RO01-KA121-VET-000319082

-site personal pentru inscriere in Erasmus +4IT

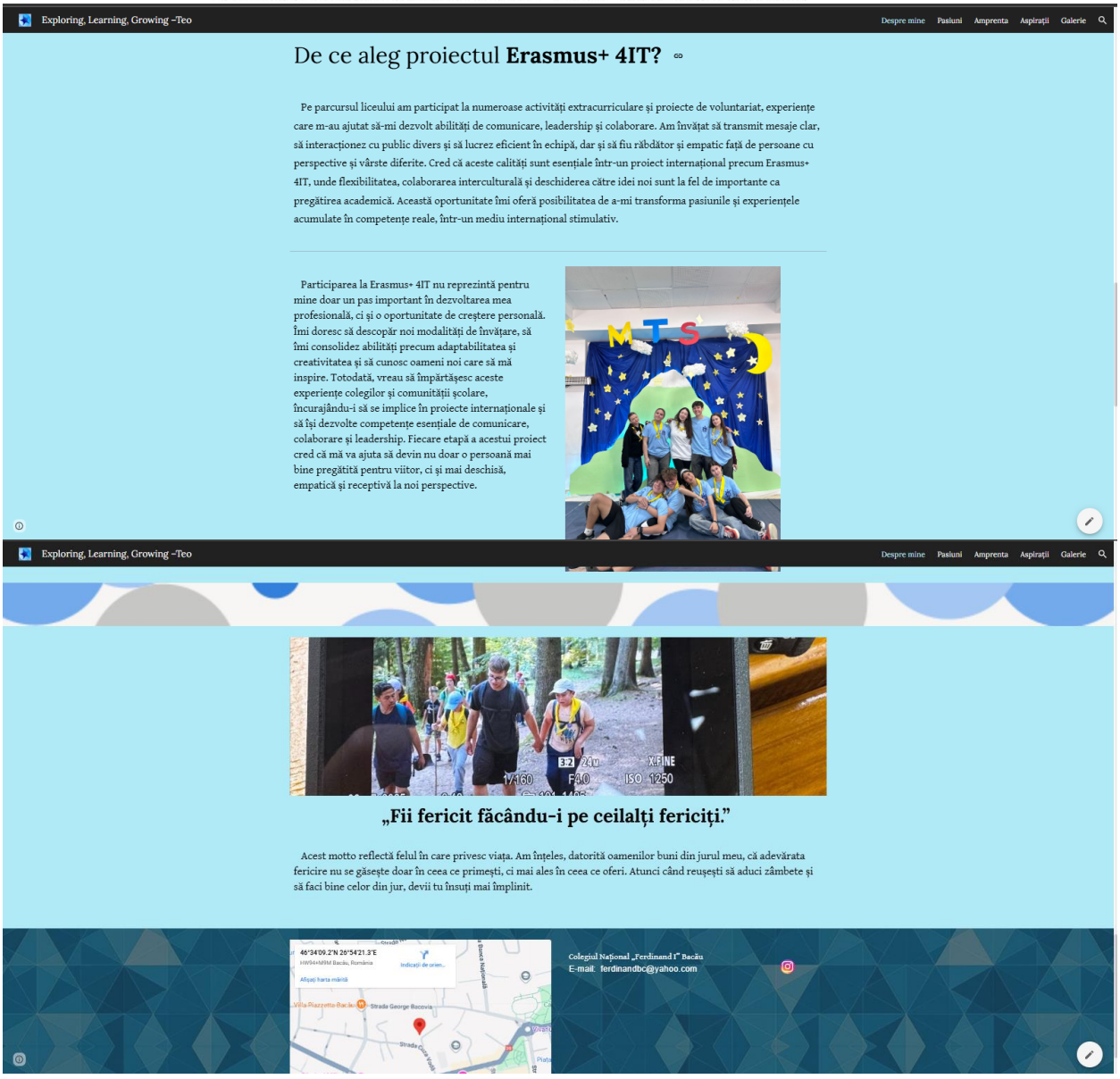




DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Co-funded by the Erasmus+ Programme of the European Union

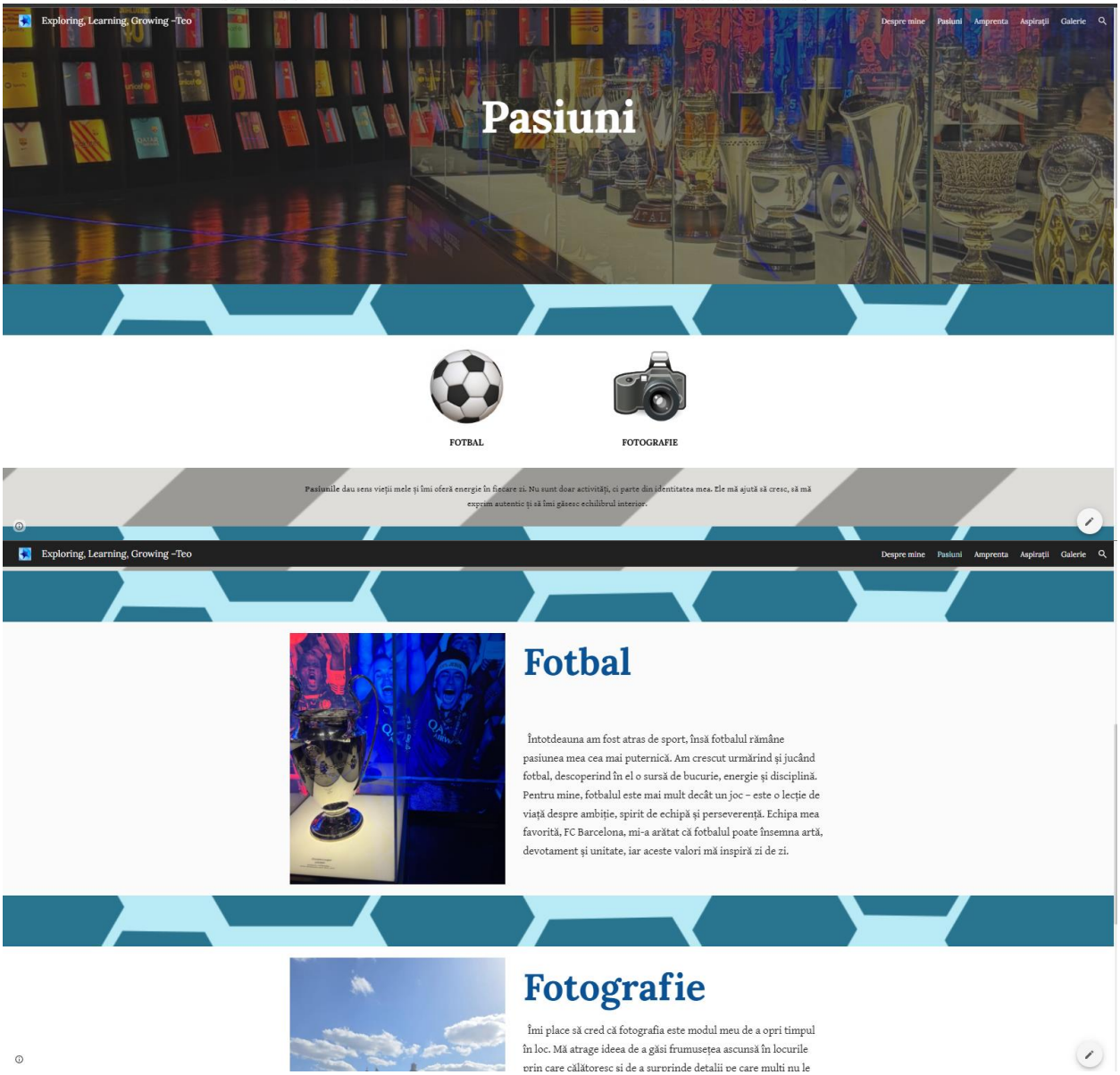
2025-1-RO01-KA121-VET-000319082



DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Co-funded by the Erasmus+ Programme of the European Union

2025-1-RO01-KA121-VET-000319082



DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Co-funded by the Erasmus+ Programme of the European Union

Erasmus+

2025-1-RO01-KA121-VET-000319082



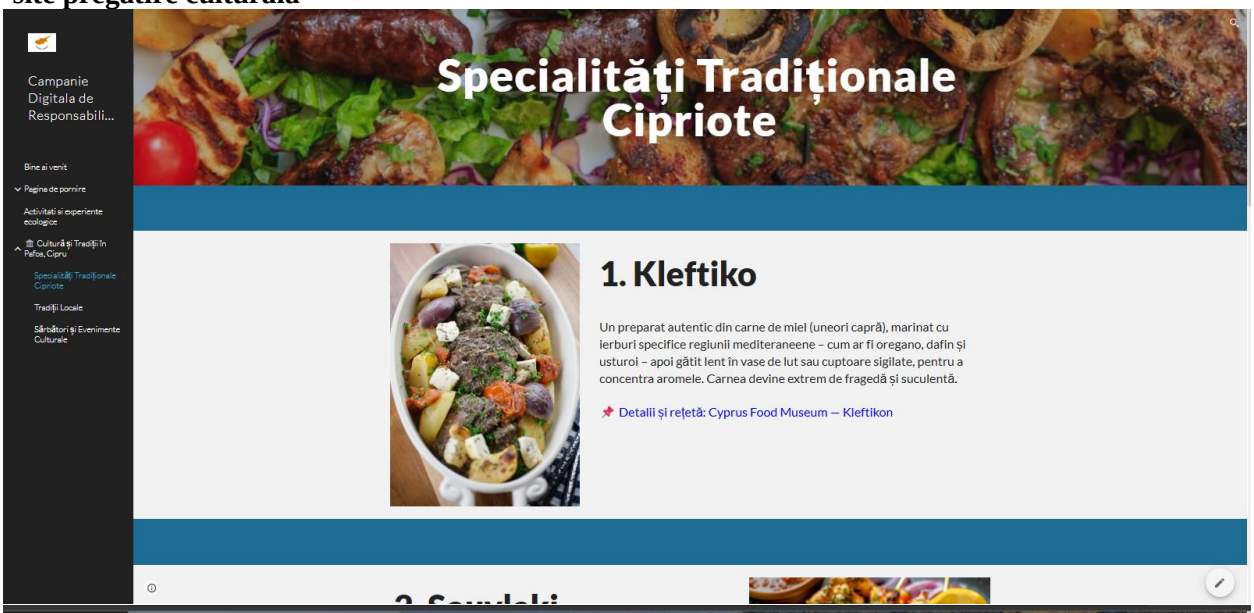
Această pagină reflectă **dorințele mele, visurile mele și direcția în care vreau să cresc**. Cred că fiecare experiență trăită, fiecare persoană care m-a influențat și fiecare provocare pe care am întâmpinat-o contribuie la **cine sunt astăzi**. Aici împărtășesc ce mă motivează și ce îmi doresc să ating în viitor.

Obiective și visuri



DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

-site pregatire culturala





DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

2025-1-RO01-KA121-VET-000319082



-cod pointere c++

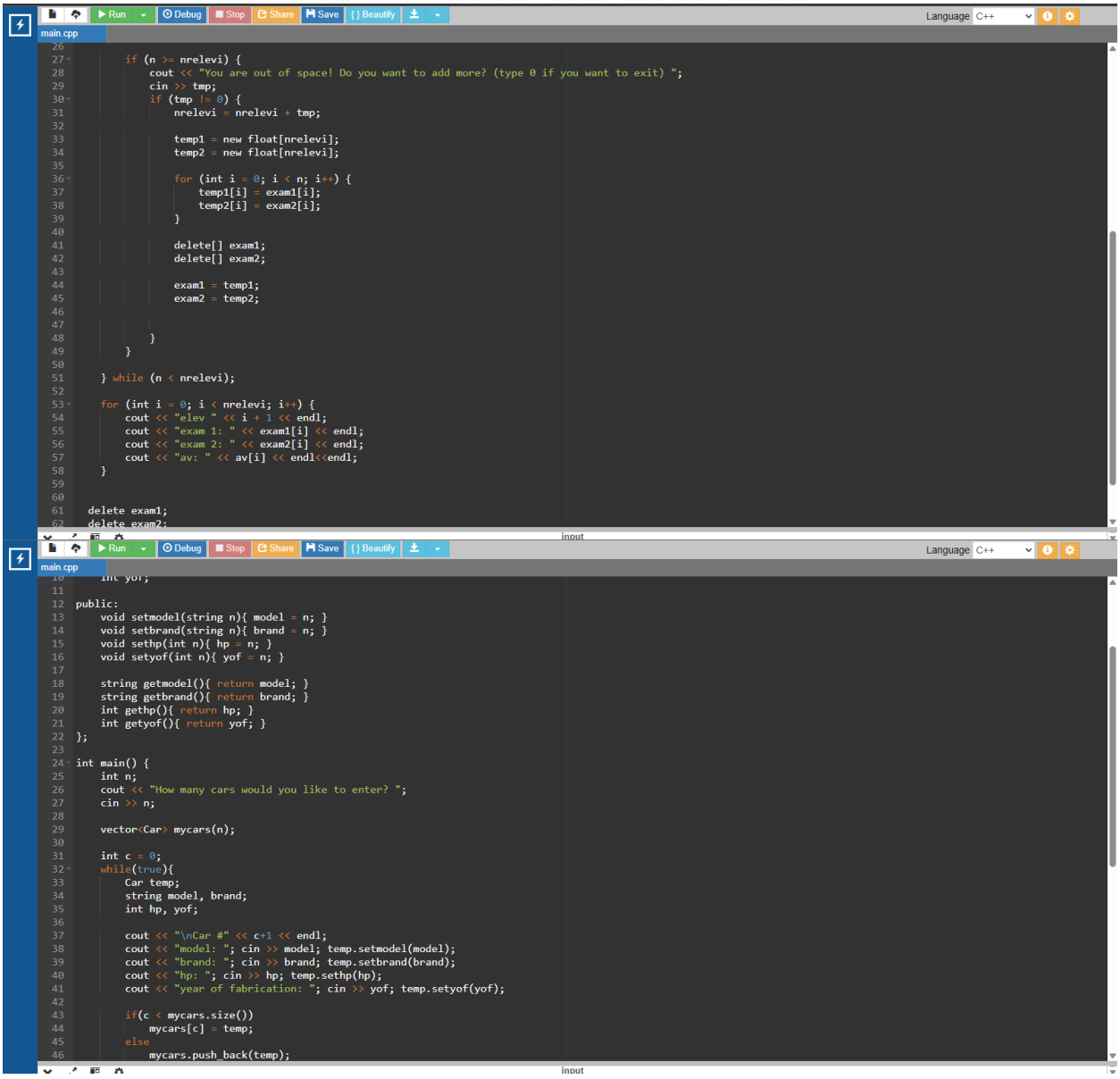


DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Co-funded by the Erasmus+ Programme of the European Union

Erasmus+

2025-1-RO01-KA121-VET-000319082



```
        if (n >= nrelevi) {
            cout << "You are out of space! Do you want to add more? (type 0 if you want to exit) ";
            cin >> tmp;
            if (tmp != 0) {
                nrelevi = nrelevi + tmp;

                temp1 = new float[nrelevi];
                temp2 = new float[nrelevi];

                for (int i = 0; i < n; i++) {
                    temp1[i] = exam1[i];
                    temp2[i] = exam2[i];
                }

                delete[] exam1;
                delete[] exam2;

                exam1 = temp1;
                exam2 = temp2;


            }
        }

    } while (n < nrelevi);

    for (int i = 0; i < nrelevi; i++) {
        cout << "elev " << i + 1 << endl;
        cout << "exam 1: " << exam1[i] << endl;
        cout << "exam 2: " << exam2[i] << endl;
        cout << "av: " << av[i] << endl<<endl;
    }


  delete exam1;
  delete exam2;
```



```
int yof;

public:
    void setmodel(string n){ model = n; }
    void setbrand(string n){ brand = n; }
    void sethp(int n){ hp = n; }
    void setyof(int n){ yof = n; }

    string getmodel(){ return model; }
    string getbrand(){ return brand; }
    int gethp(){ return hp; }
    int getyof(){ return yof; }
};

int main() {
    int n;
    cout << "How many cars would you like to enter? ";
    cin >> n;

    vector<Car> mycars(n);

    int c = 0;
    while(true){
        Car temp;
        string model, brand;
        int hp, yof;

        cout << "\nCar #" << c+1 << endl;
        cout << "model: "; cin >> model; temp.setmodel(model);
        cout << "brand: "; cin >> brand; temp.setbrand(brand);
        cout << "hp: "; cin >> hp; temp.sethp(hp);
        cout << "year of fabrication: "; cin >> yof; temp.setyof(yof);

        if(c < mycars.size())
            mycars[c] = temp;
        else
            mycars.push_back(temp);
```

DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Co-funded by the Erasmus+ Programme of the European Union

2025-1-RO01-KA121-VET-000319082

```
Run | Debug | Stop | Share | Save | {} Beautify | Language C++
main.cpp
        cout << "year of fabrication: "; cin >> yof; temp.setyof(yof);

        if(c < mycars.size())
            mycars[c] = temp;
        else
            mycars.push_back(temp);

        c++;

        if(c >= n){
            int extra;
            cout << "You have entered all cars. Add more? (0 to exit, number to add): ";
            cin >> extra;
            if(extra == 0) break;
            n += extra;
            mycars.resize(n);
        }
    }

    cout << "\n=== Car List ===\n";
    for(int i = 0; i < c; i++){
        cout << "Car " << i+1 << endl;
        cout << "Model: " << mycars[i].getmodel() << endl;
        cout << "Brand: " << mycars[i].getbrand() << endl;
        cout << "HP: " << mycars[i].gethp() << endl;
        cout << "Year: " << mycars[i].getyof() << endl << endl;
    }

    return 0;
}

Int main(intargc; char** argv){
Int side1=0;intside2=0;
Cout<<"you have entered"<<argc
<<"arguments"<<"/n;}
javascript:void(0);
input
```

-cod arduino

```
Distance_sensor.ino
#define PIN1 4
#define Pin2 7
#define echo 10
#define trg 9
#define buzzer 3
float distance, duration,time;
void setup() {
  Serial.begin(9600);
  pinMode(LED_BUILTIN,OUTPUT);
  pinMode(PIN1, OUTPUT);
  pinMode(Pin2, OUTPUT);
  pinMode(echo,INPUT);
  pinMode(trg,OUTPUT);
  pinMode(buzzer, OUTPUT);
}

void loop() {
   digitalWrite(trg, LOW);
  delayMicroseconds(2);
  digitalWrite(trg, HIGH);
  delayMicroseconds(10);
  digitalWrite(trg, LOW);

  duration = pulseIn(echo, HIGH);
  distance = (duration*.0343)/2;
  if(distance<90)
  time = distance*10;
  else time = distance;
  digitalWrite(PIN1,HIGH);
  delay(time);
  digitalWrite(PIN1,LOW);
  delay(time);
  if(distance<20)
  digitalWrite(Pin, HIGH);
  else digitalWrite(pin, LOW)

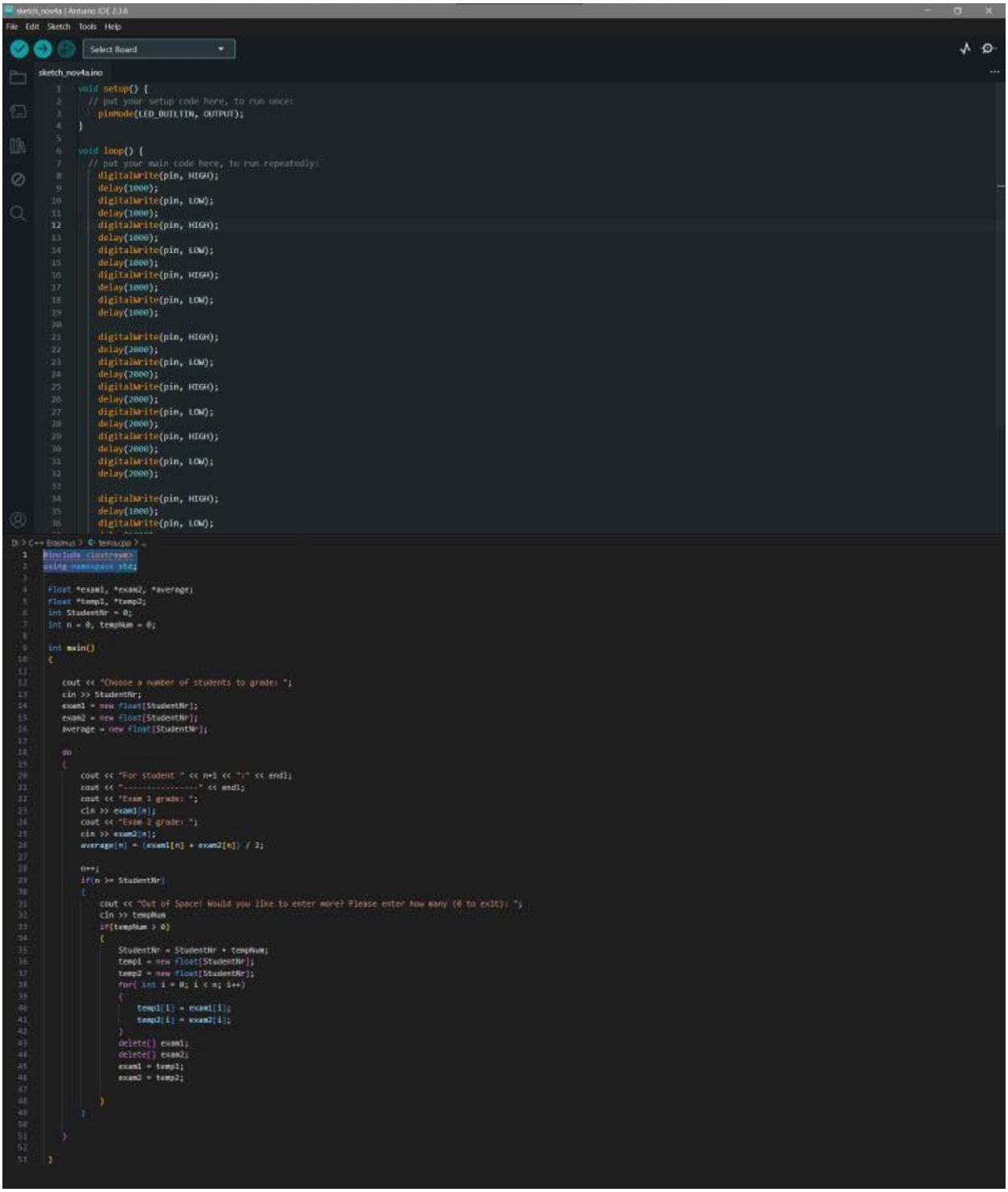
}
```

DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Co-funded by the Erasmus+ Programme of the European Union

Erasmus+

2025-1-RO01-KA121-VET-000319082



```
sketch_nov4a | Arduino IDE 2.3.6
File  Edit  Sketch  Tools  Help
Select Board
sketch_nov4a.ino

void setup() {
  // put your setup code here, to run once:
  pinMode(LED_BUILTIN, OUTPUT);
}

void loop() {
  // put your main code here, to run repeatedly:
  digitalWrite(pin, HIGH);
  delay(1000);
  digitalWrite(pin, LOW);
  delay(1000);
  digitalWrite(pin, HIGH);
  delay(1000);
  digitalWrite(pin, LOW);
  delay(1000);
  digitalWrite(pin, HIGH);
  delay(1000);
  digitalWrite(pin, LOW);
  delay(1000);

  digitalWrite(pin, HIGH);
  delay(2000);
  digitalWrite(pin, LOW);
  delay(2000);
  digitalWrite(pin, HIGH);
  delay(2000);
  digitalWrite(pin, LOW);
  delay(2000);
  digitalWrite(pin, HIGH);
  delay(2000);
  digitalWrite(pin, LOW);
  delay(2000);

  digitalWrite(pin, HIGH);
  delay(1000);
  digitalWrite(pin, LOW);
```

```
D: > C++ Erasmus > C: teva.cpp > ...
#include <iostream>
using namespace std;

float *exam1, *exam2, *average;
float *temp1, *temp2;
int StudentNr = 0;
int n = 0, tempNum = 0;

int main()
{

    cout << "Choose a number of students to grade: ";
    cin >> StudentNr;
    exam1 = new float[StudentNr];
    exam2 = new float[StudentNr];
    average = new float[StudentNr];

    do
    {
        cout << "For student " << n+1 << ":" << endl;
        cout << "----------------" << endl;
        cout << "Exam 1 grade: ";
        cin >> exam1[n];
        cout << "Exam 2 grade: ";
        cin >> exam2[n];
        average[n] = (exam1[n] + exam2[n]) / 2;

        n++;
        if(n >= StudentNr)
        {
            cout << "Out of Space! Would you like to enter more? Please enter how many (0 to exit): ";
            cin >> tempNum
            if(tempNum > 0)
            {
                StudentNr = StudentNr + tempNum;
                temp1 = new float[StudentNr];
                temp2 = new float[StudentNr];
                for( int i = 0; i < n; i++)
                {
                    temp1[i] = exam1[i];
                    temp2[i] = exam2[i];
                }
                delete[] exam1;
                delete[] exam2;
                exam1 = temp1;
                exam2 = temp2;

            }
        }

    }

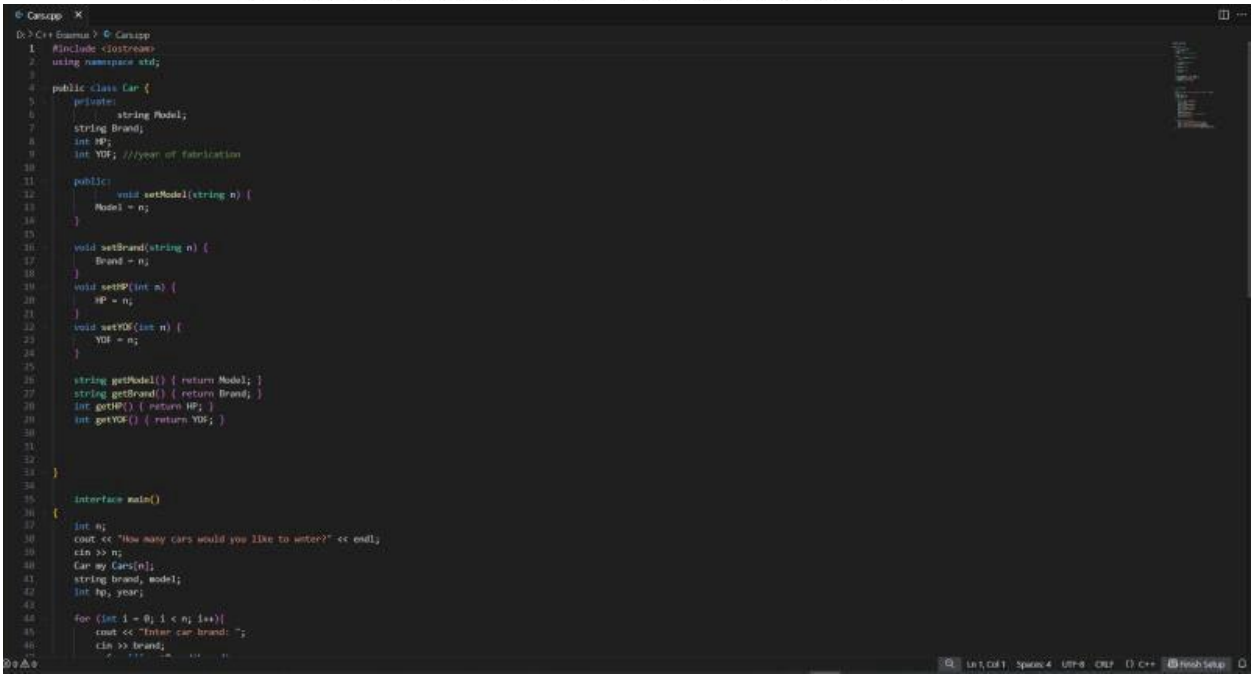
}
```

DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Co-funded by the Erasmus+ Programme of the European Union

Erasmus+

2025-1-RO01-KA121-VET-000319082



```cpp
#include <iostream>
using namespace std;

public class Car {
    private:
            string Model;
    string Brand;
    int HP;
    int YOF; //year of fabrication

    public:
            void setModel(string n) {
        Model = n;
    }

    void setBrand(string n) {
        Brand = n;
    }
    void setHP(int n) {
        HP = n;
    }
    void setYOF(int n) {
        YOF = n;
    }

    string getModel() { return Model; }
    string getBrand() { return Brand; }
    int getHP() { return HP; }
    int getYOF() { return YOF; }



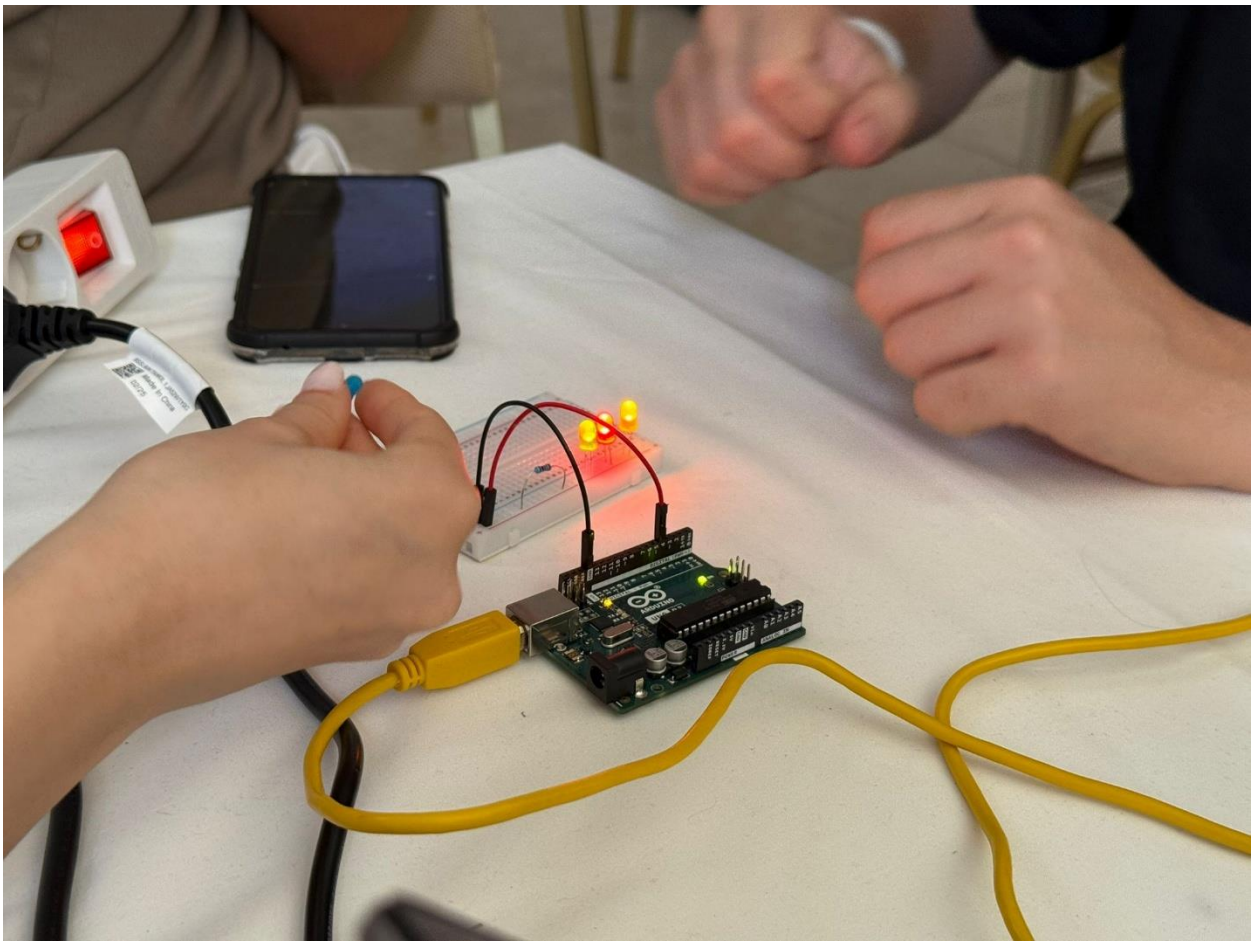
}

    interface main()
{
    int n;
    cout << "How many cars would you like to enter?" << endl;
    cin >> n;
    Car my Cars[n];
    string brand, model;
    int hp, year;

    for (int i = 0; i < n; i++){
        cout << "Enter car brand: ";
        cin >> brand;
```

DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

-Circuite arduino

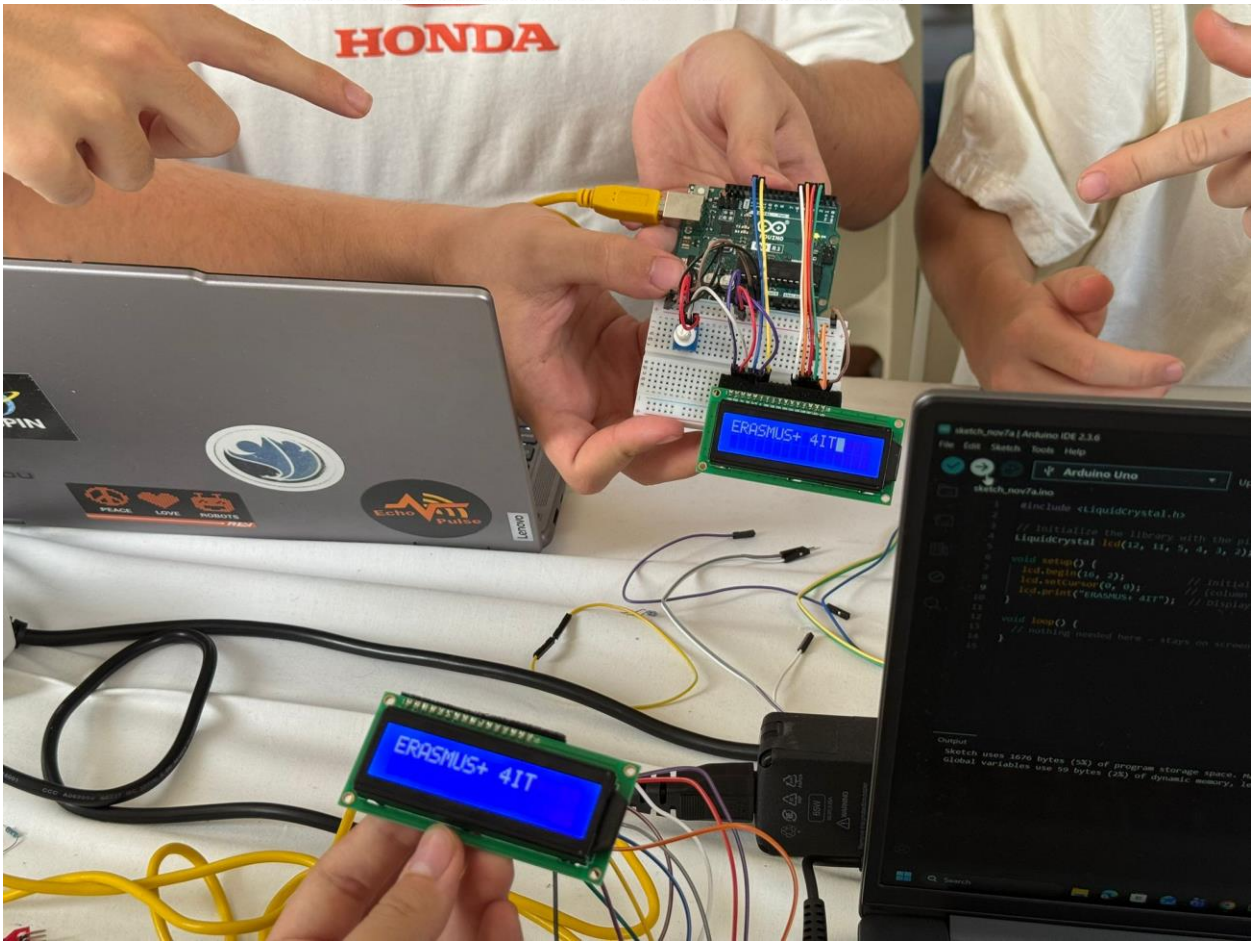


DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.

Co-funded by the Erasmus+ Programme of the European Union

Erasmus+

2025-1-RO01-KA121-VET-000319082



DISCLAIMER: The European Commission's support for the production of this publication does not constitute an endorsement of the contents, which reflect the views only of the authors, and the Commission cannot be held responsible for any use which may be made of the information contained therein.