2025-1-RO01-KA121-VET-000319082

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

Beneficiary: "Ferdinand I" National College, Bacau

Sending organization: "Gheorghe Vranceanu" 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: Lazarous ICT Professionals

Practice tutor: Lazaros Lazarou

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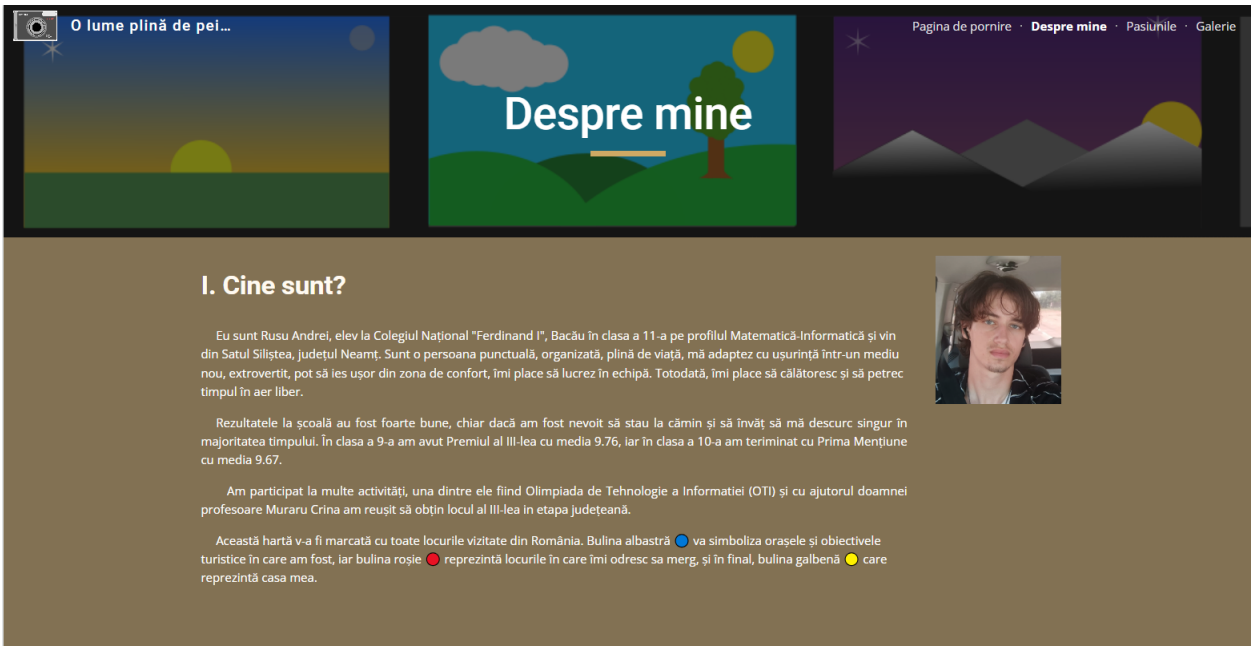
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Participant: Rusu Andrei

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Secțiunea 1:

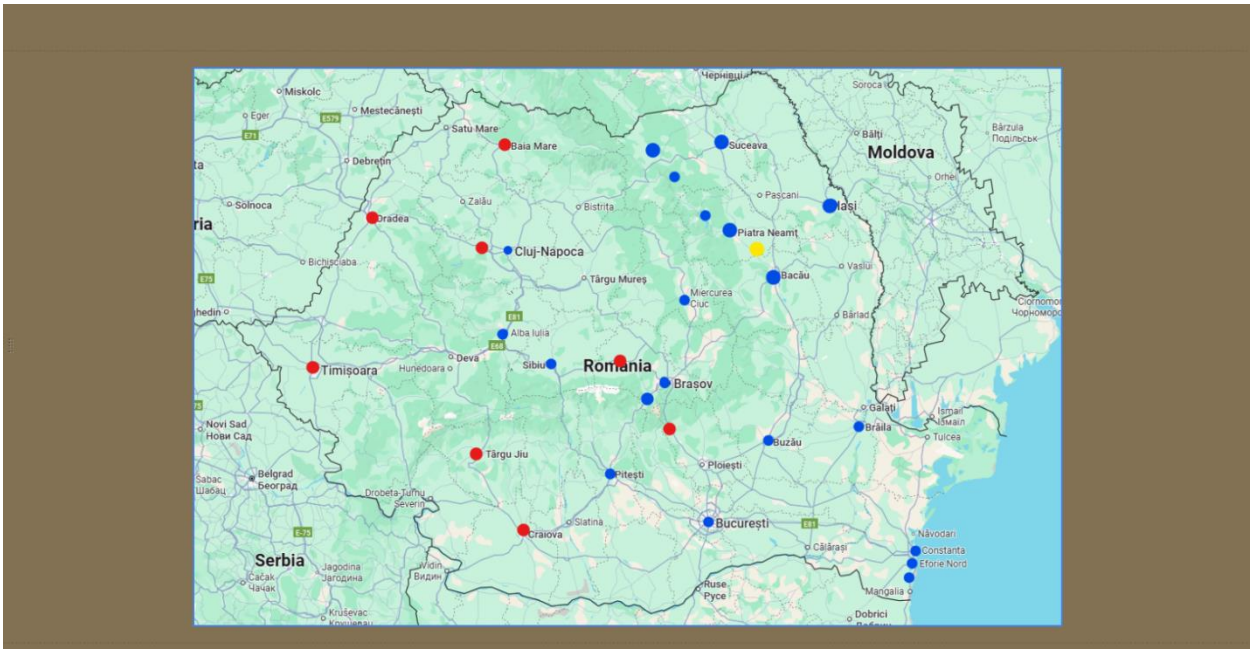




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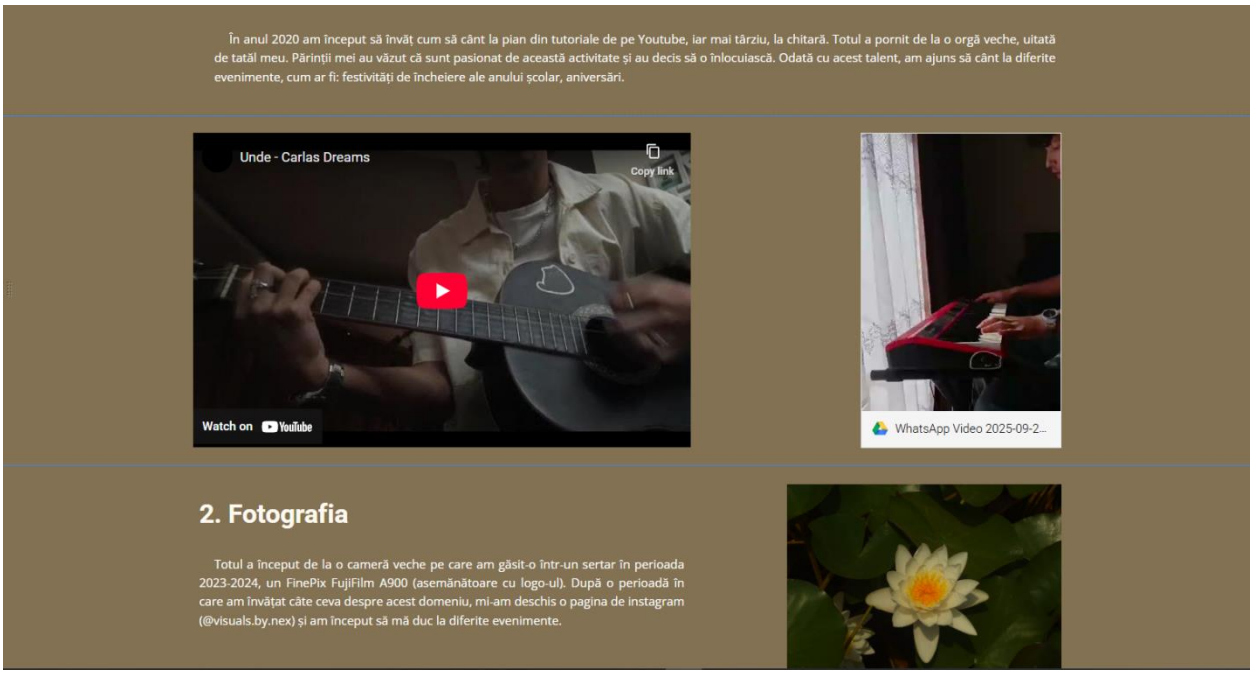


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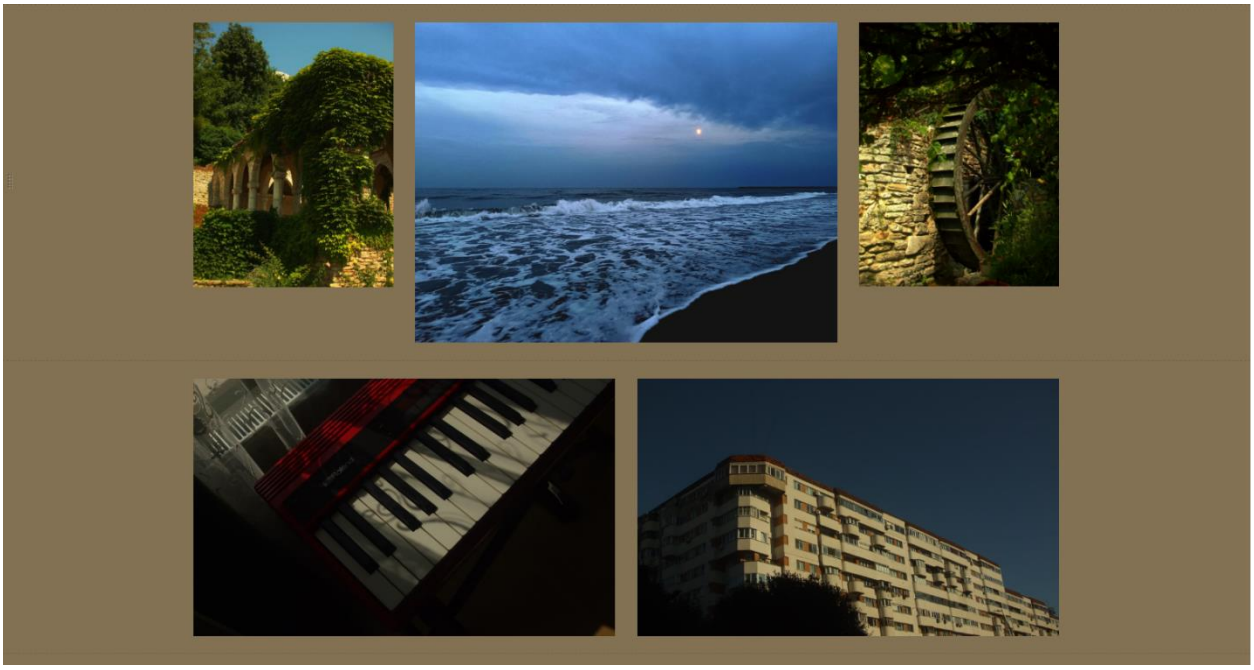




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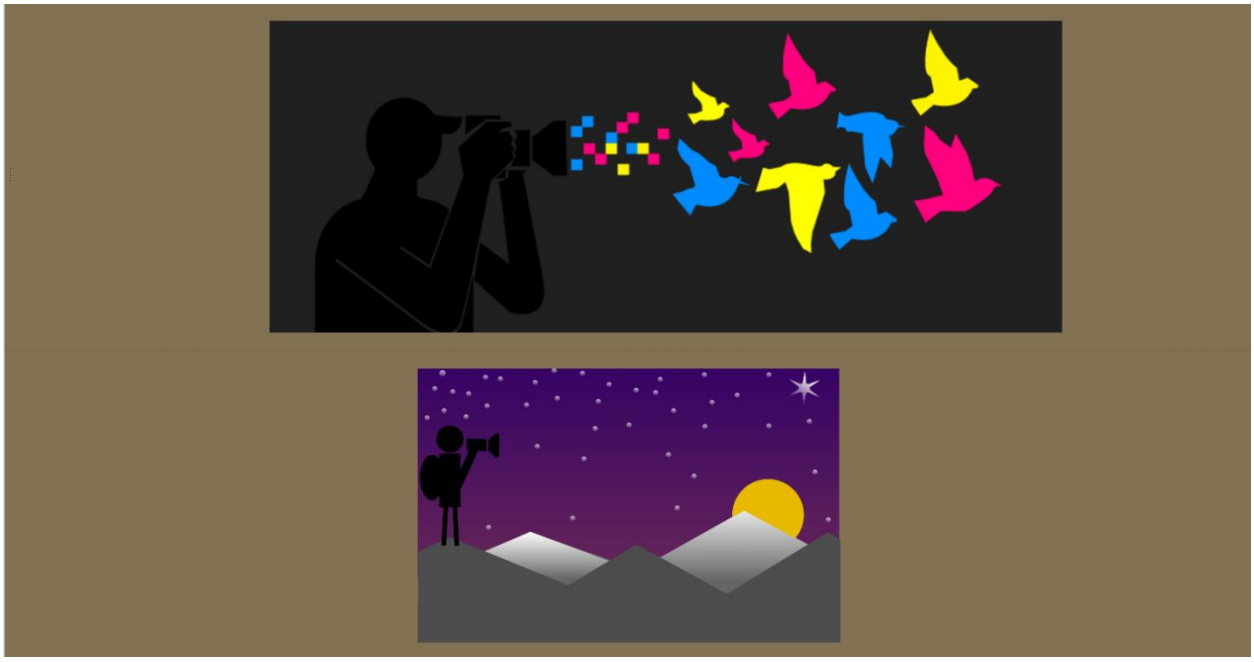


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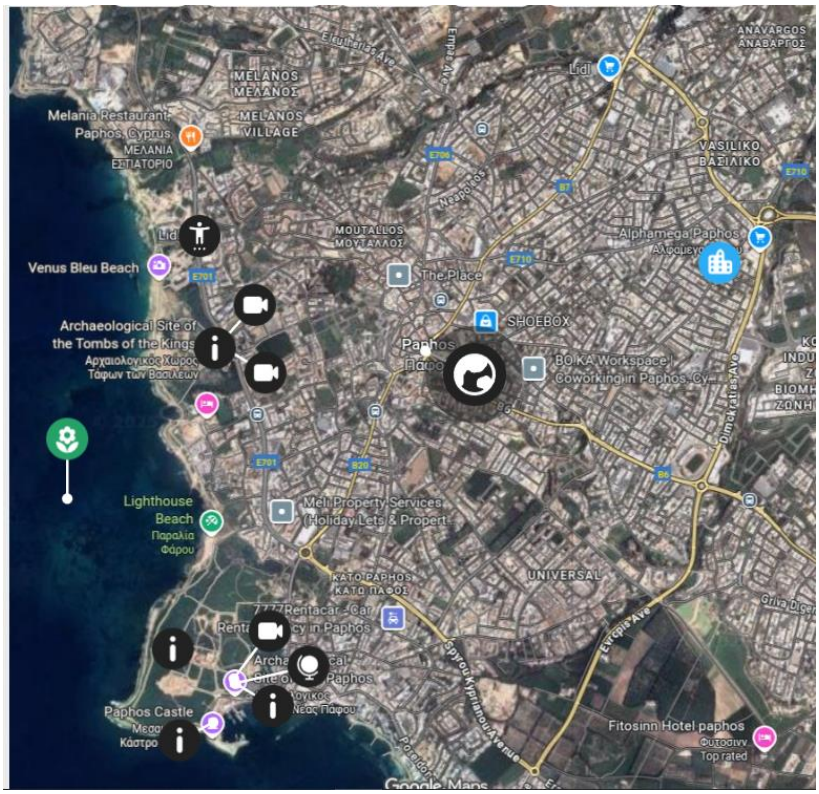
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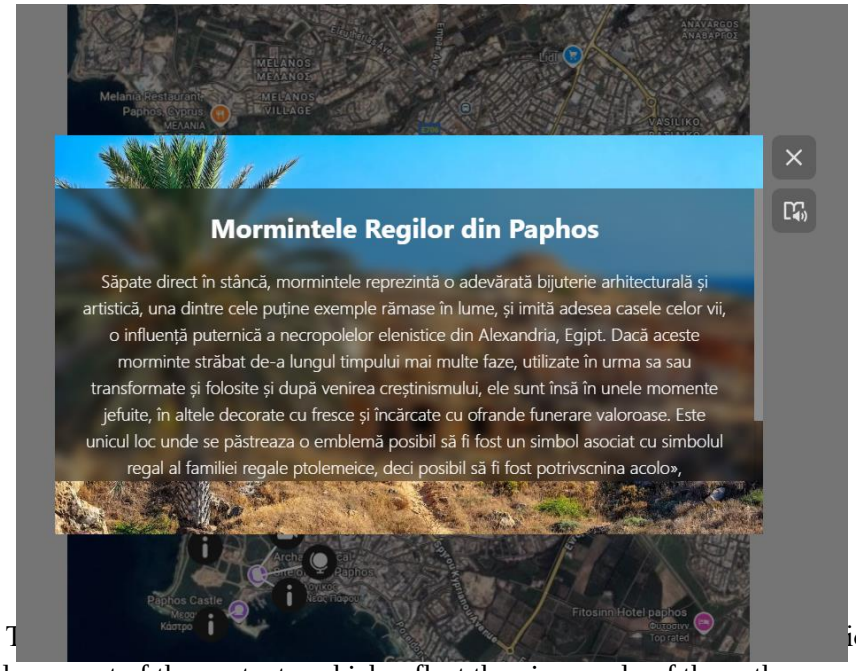




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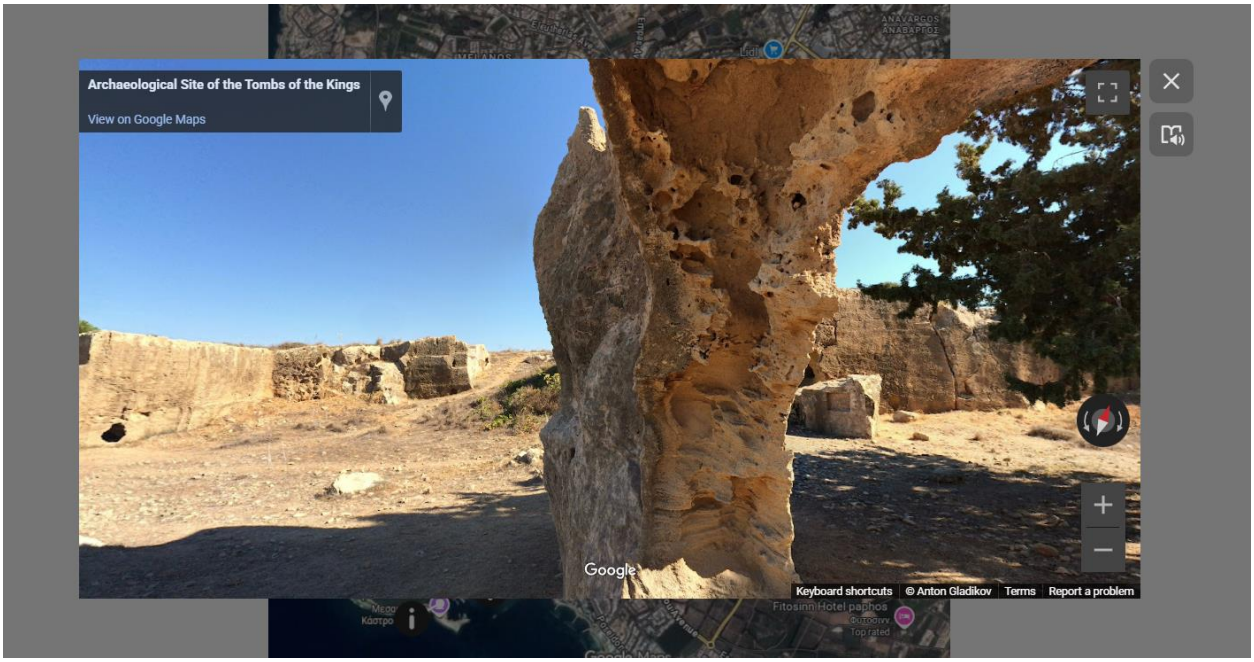
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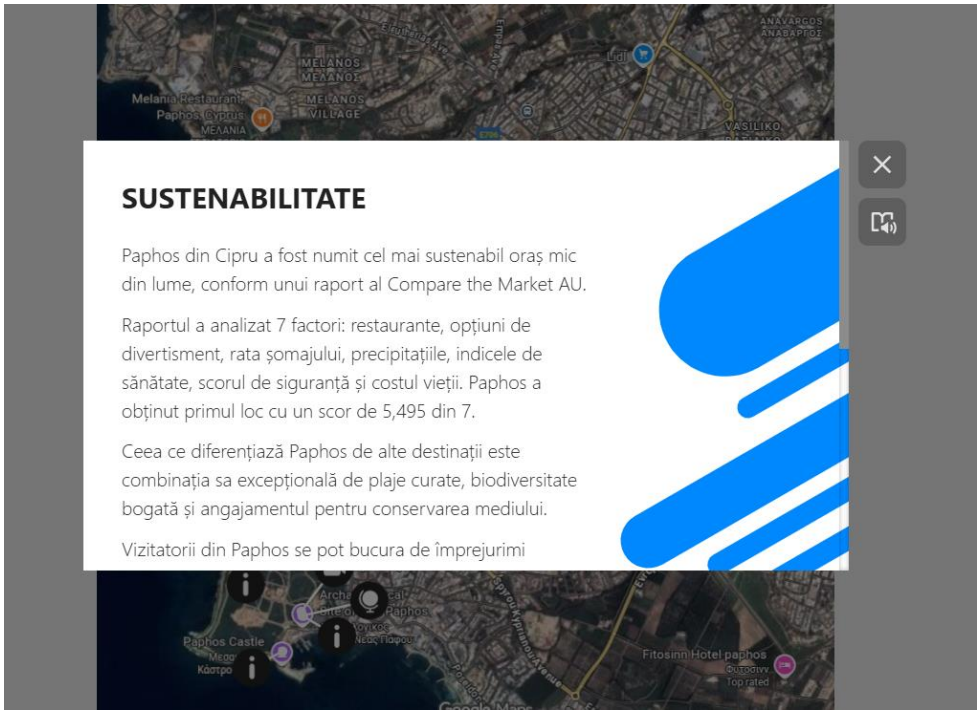




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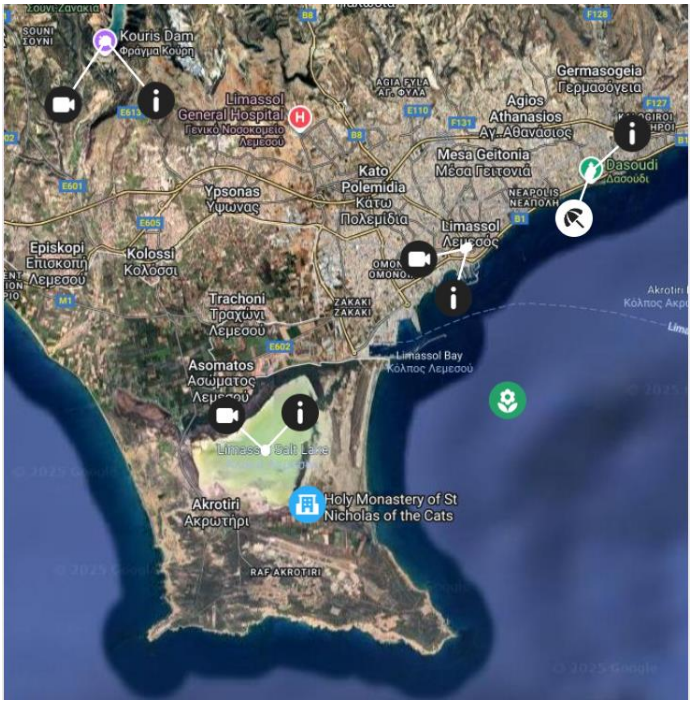
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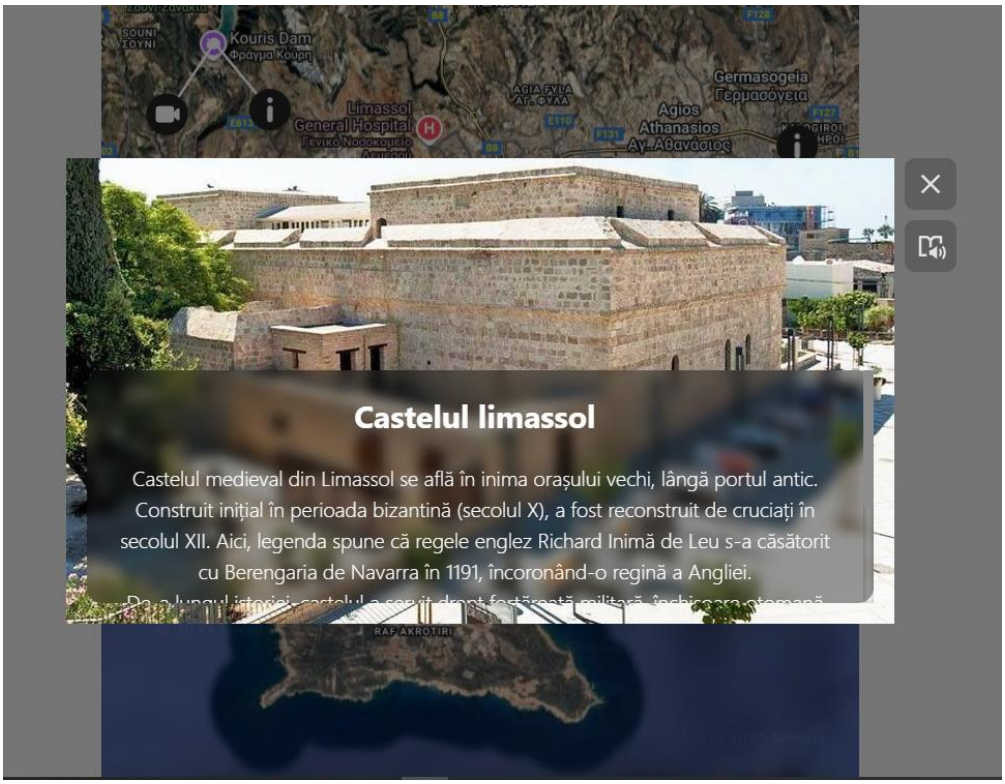




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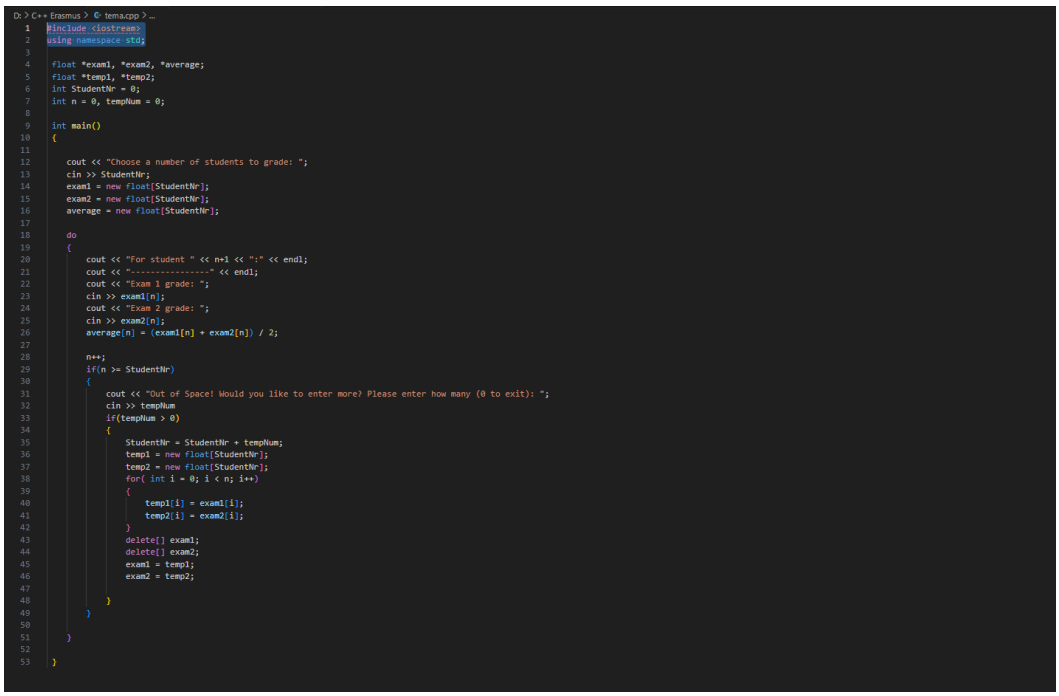


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Secțiunea 2: Home Station Control



```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];

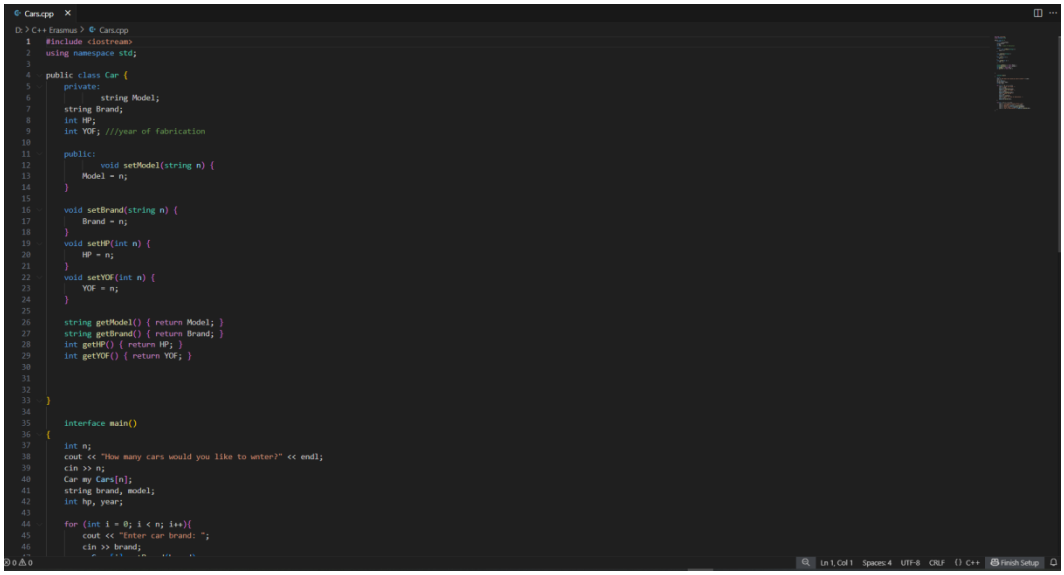
    do
    {
        cout << "For student " << n+1 << ":" << endl;
        cout << "---------------" << endl;
        cout << "Exam 1 grade: ";
        cin >> exam1[n];
        cout << "Exam 2 grade: ";
        cin >> exam2[n];
        average[n] = (exam1[n] + exam2[n]) / 2;

        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;

            }
        }

    }

}
```



```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;

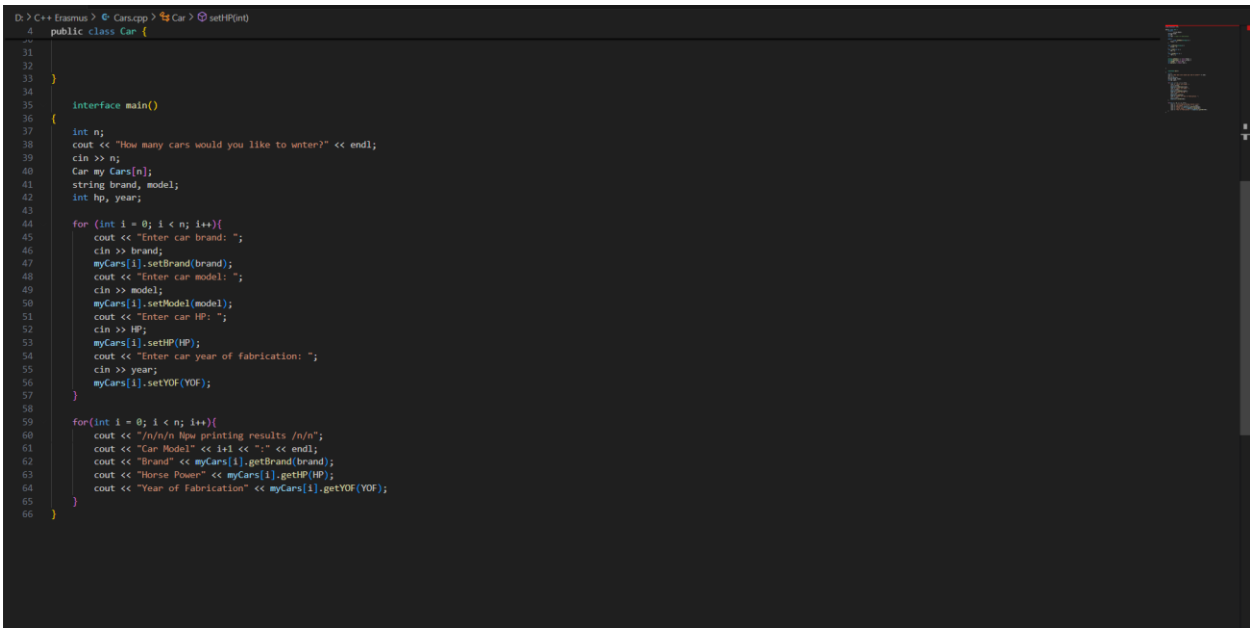
    for (int i = 0; i < n; i++){
        cout << "Enter car brand: ";
        cin >> brand;
```

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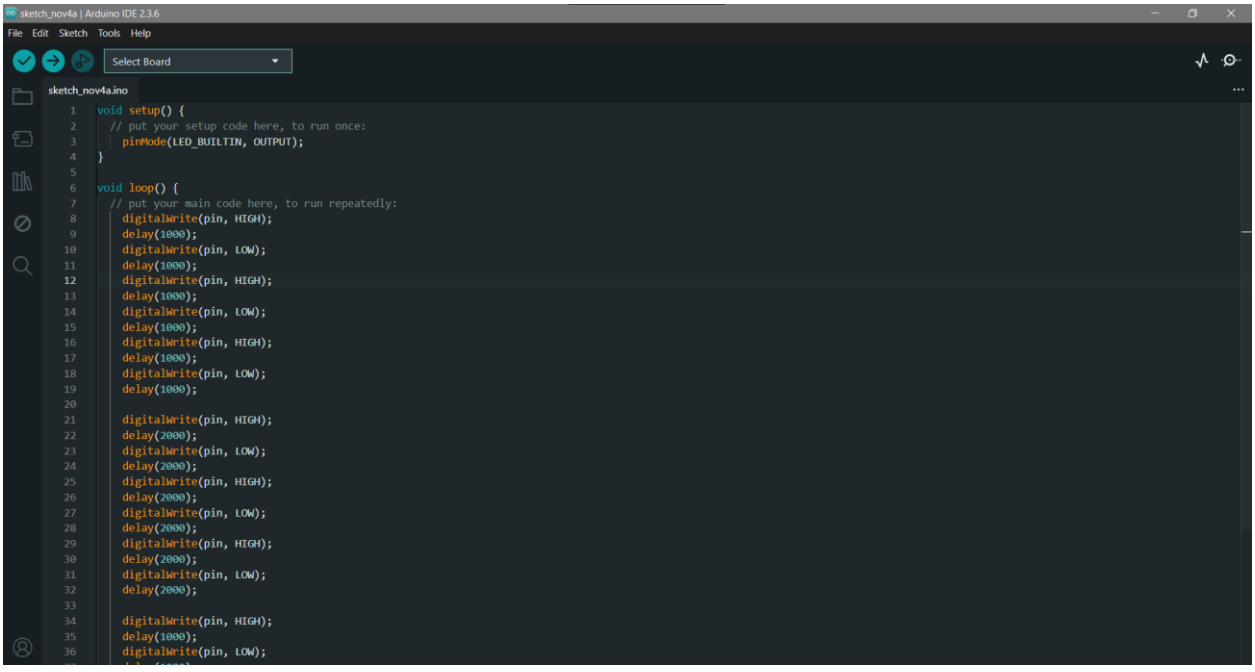
```
D: > C++ Erasmus > Cars.cpp > Car > setHP(int)
public class Car {


}

    interface main()
{
    int n;
    cout << "How many cars would you like to wnter?" << 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;
        myCars[i].setBrand(brand);
        cout << "Enter car model: ";
        cin >> model;
        myCars[i].setModel(model);
        cout << "Enter car HP: ";
        cin >> HP;
        myCars[i].setHP(HP);
        cout << "Enter car year of fabrication: ";
        cin >> year;
        myCars[i].setYOF(YOF);
    }

    for(int i = 0; i < n; i++){
        cout << "/n/n/n Now printing results /n/n";
        cout << "Car Model" << i+1 << ":" << endl;
        cout << "Brand" << myCars[i].getBrand(brand);
        cout << "Horse Power" << myCars[i].getHP(HP);
        cout << "Year of Fabrication" << myCars[i].getYOF(YOF);
    }
}
```



```
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);

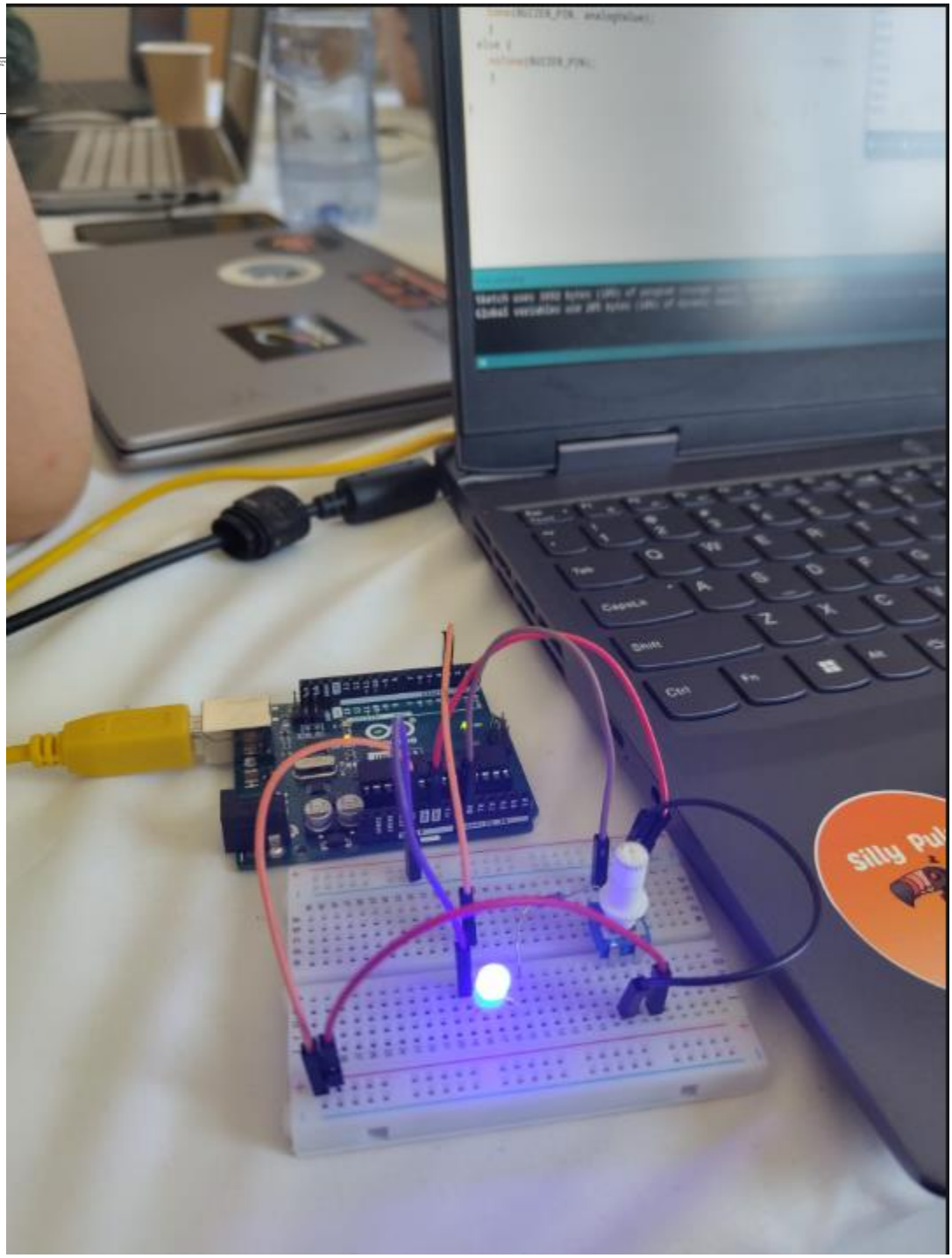
  digitalWrite(pin, HIGH);
  delay(2000);
  digitalWrite(pin, LOW);
  delay(2000);
  digitalWrite(pin, HIGH);
  delay(2000);
  digitalWrite(pin, LOW);
  delay(2000);
  digitalWrite(pin, HIGH);
  delay(2000);
  digitalWrite(pin, LOW);
  delay(2000);

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

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