

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
Participant: Pădurescu Victor-Alexandru

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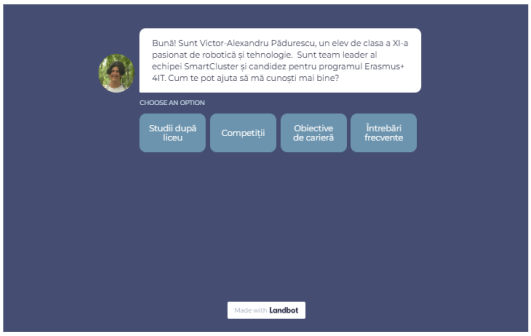
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Section 1:

This section oversees the tasks given for my selection, aswell as the project required for my cultural preparation.





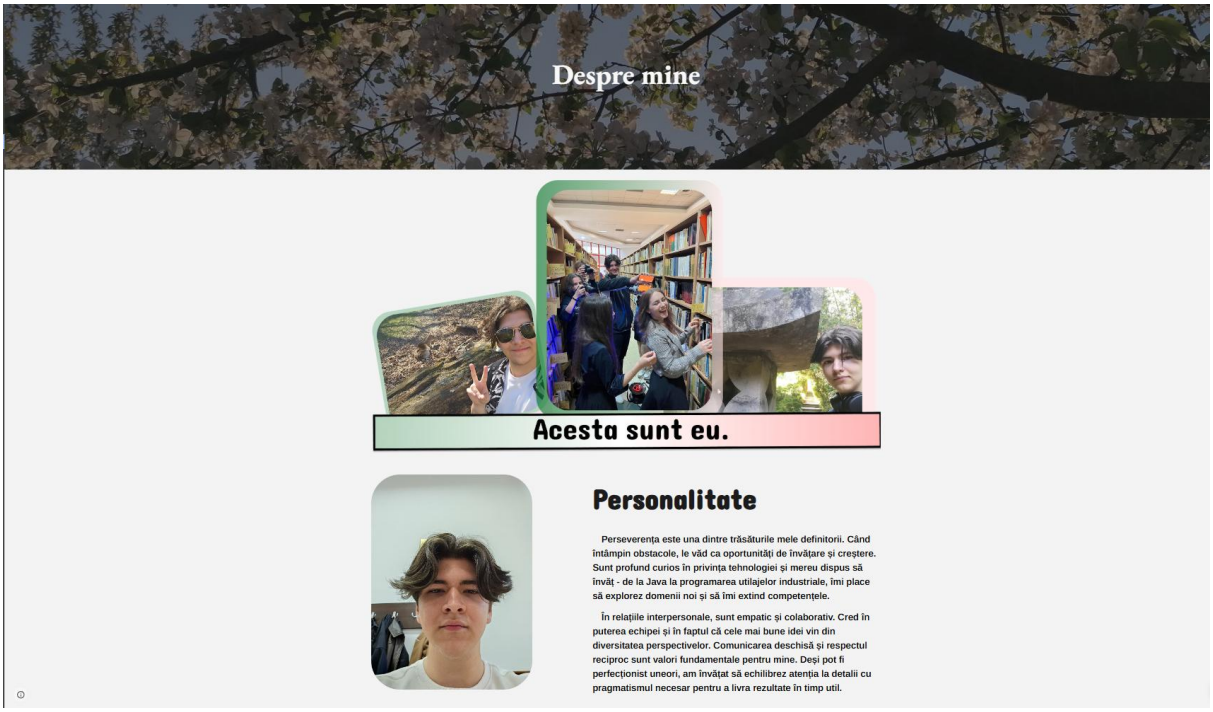


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Frank Sinatra



Ceea ce mă fascinează la Sinatra nu este doar vocea sa extraordinară, ci atitudinea de neînfrânt pe care o transmite prin fiecare melodie. Când ascult "That's Life", cu versurile sale despre a fi doborât și a te ridica din nou, găsesc în ele o filozofie care se potrivește perfect cu provocările din robotică și programare. Debugging-ul unui cod complex sau optimizarea unui sistem mecanic necesită aceeași mentalitate: accepti eșecul ca pe o lecție, te ridici și încerci din nou, de fiecare dată mai inteligent.



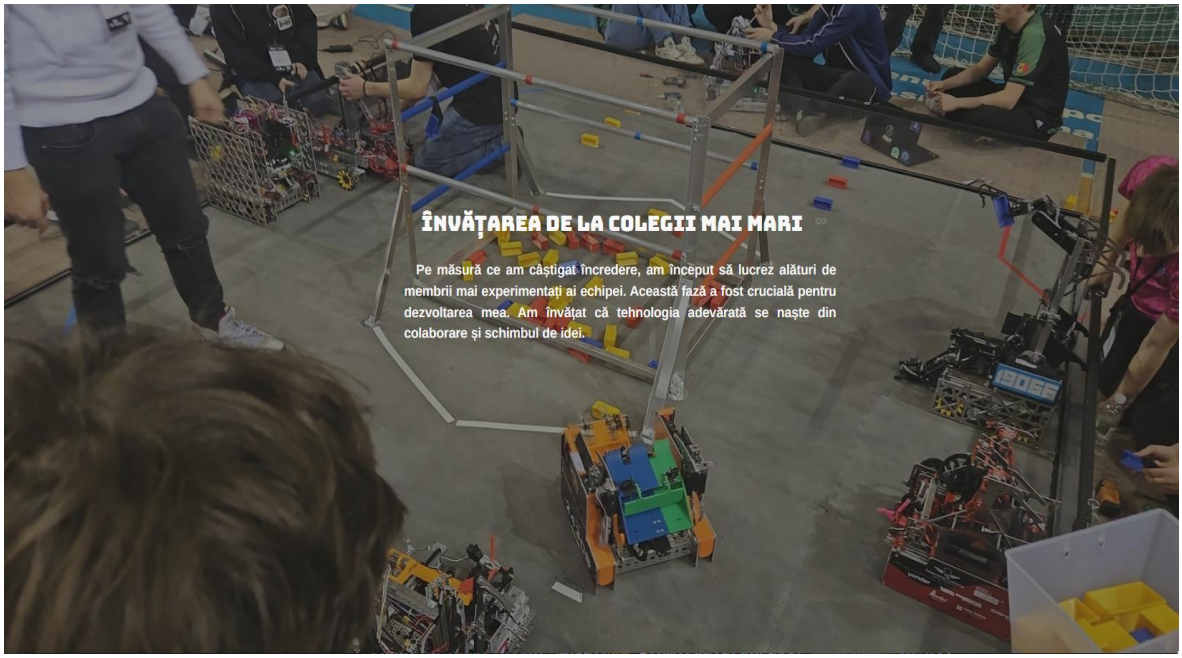
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```
),
commandToAction(
        new SequentialCommand(
                robot.moveKinematicsTarget(new AtomicReference<>(new Vector2d( x: 300, y: 15))),
                new WaitCommand( msDuration: 200),
                robot.v4b.v4b.move(new AtomicReference<>( initialValue: 180.0)),
                robot.v4b.pitch.move(new AtomicReference<>( initialValue: 0.0))
        )
),
new SequentialAction(
        new ParallelAction(
                commandToAction(
                        new SequentialCommand(
```

ȘI DE AICI MAI DEPARTE

Momentul în care am devenit eu însuși un mentor pentru noii membri a fost o revelație. Predarea mi-a consolidat propriile cunoștințe și m-a învățat să comunic concepte tehnice complexe într-un mod accesibil. Această experiență a fost fundamentală pentru dezvoltarea abilităților mele de leadership.

Ce predau acum:

- Introducere în programare - Java pentru începători, aplicații robotice de bază
- Algoritmi de control - de la logică booleană simplă la sisteme de feedback complexe
- Metodologii de testare - cum să validezi și să optimizezi codul pentru performanță maximă
- Spiritul de echipă - cum să colaborezi eficient în proiecte tehnice complexe

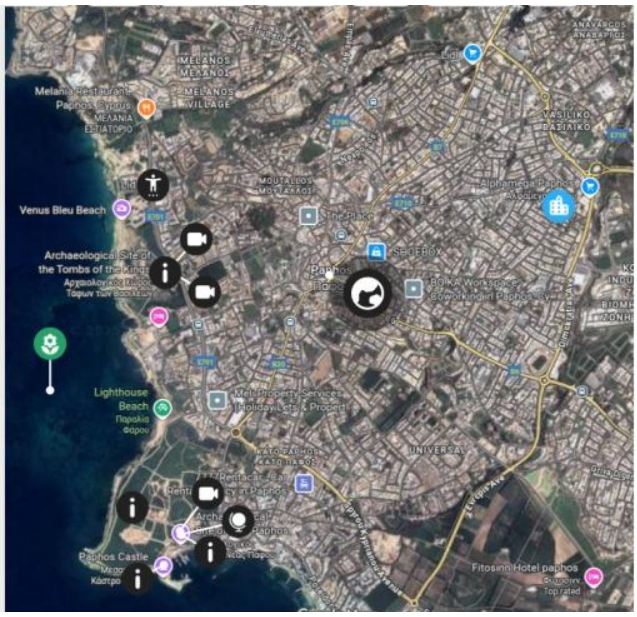


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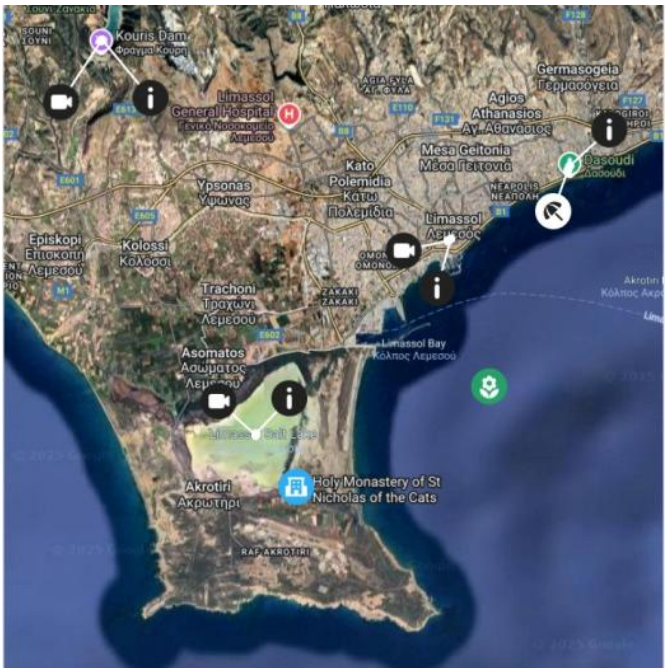


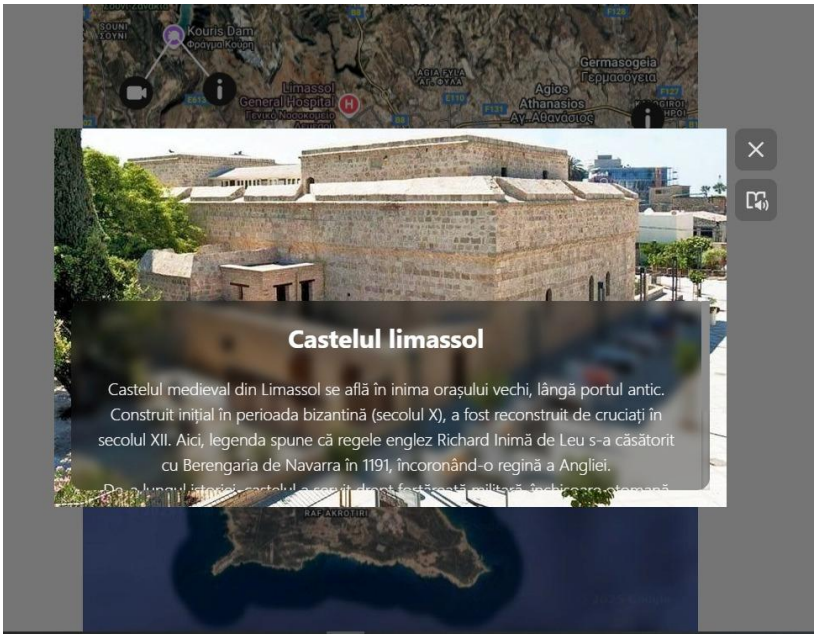
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Section nr. 2:

This section contains all class materials and tasks given by prof. Lazaros Lazarou.

```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
Cars.cpp
D: > C++ Erasmus > Cars.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 wnter?" << endl;
    cin >> n;
    Car my Cars[n];
    string brand, model;
    int hp, year;

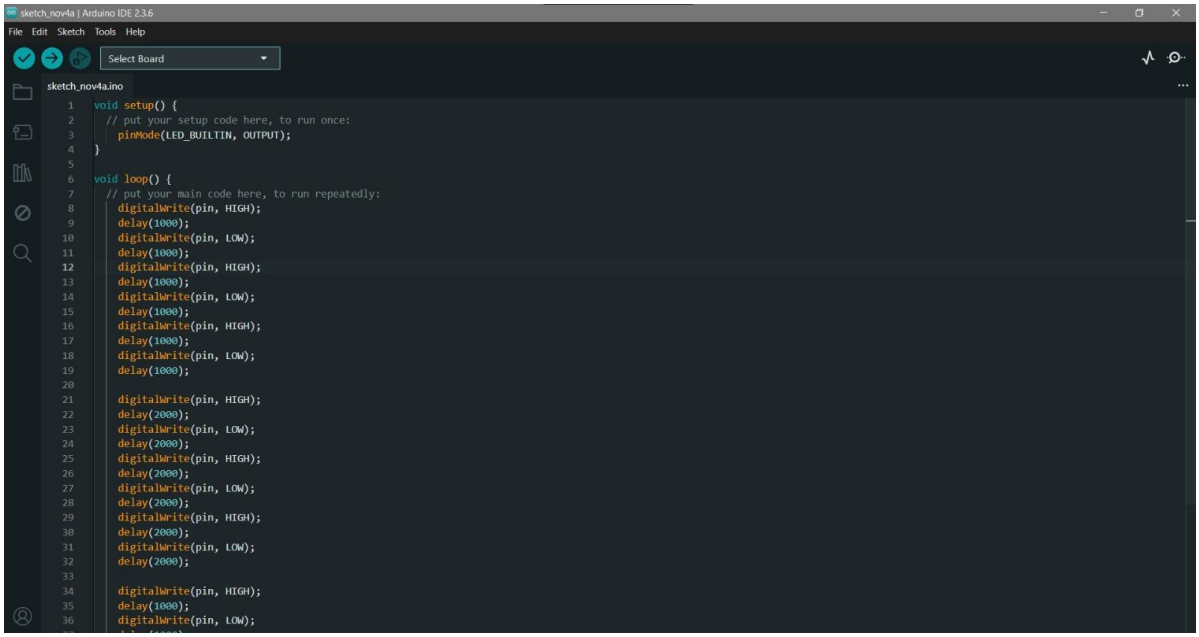
    for (int i = 0; i < n; i++){
        cout << "Enter car brand: ";
        cin >> brand;
```

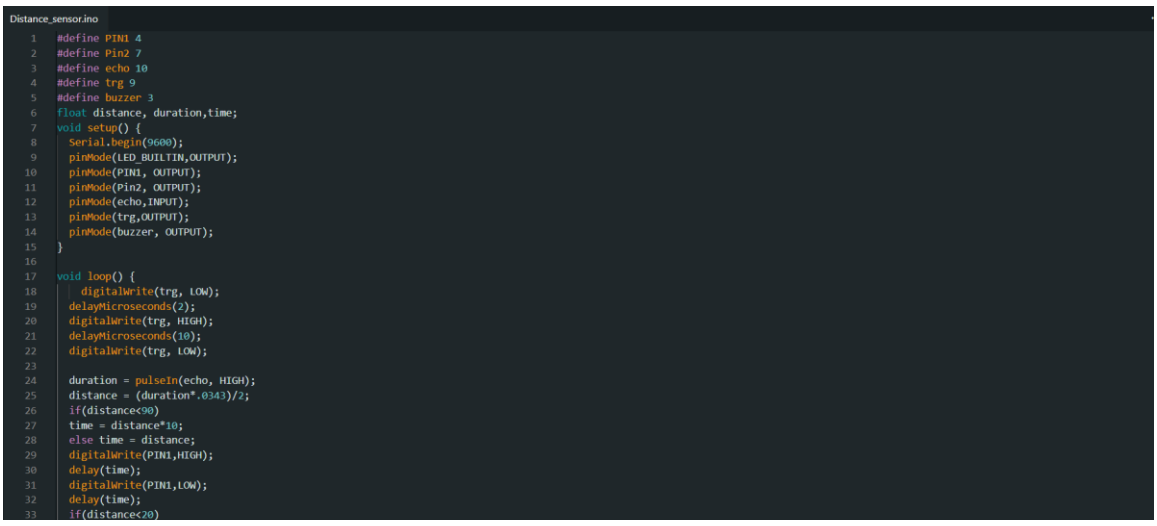
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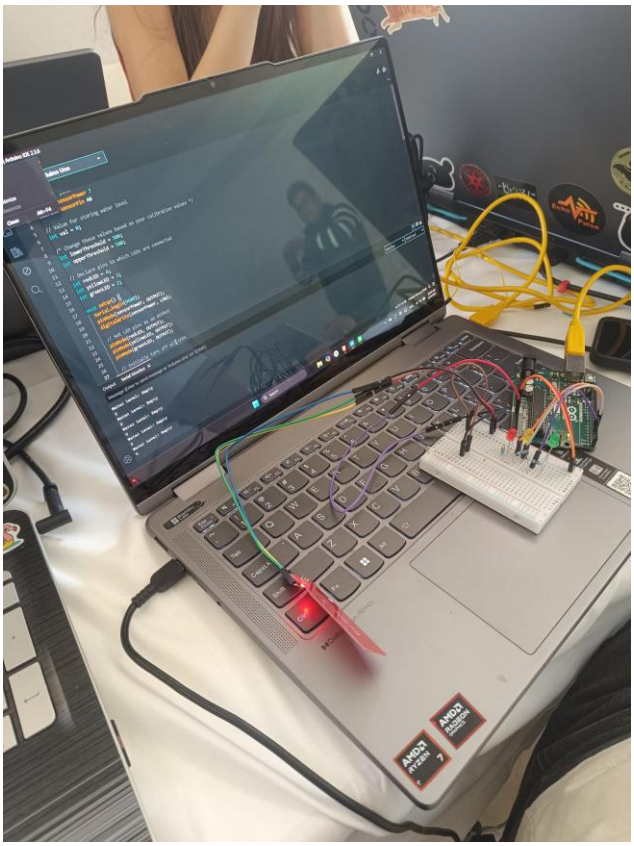




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