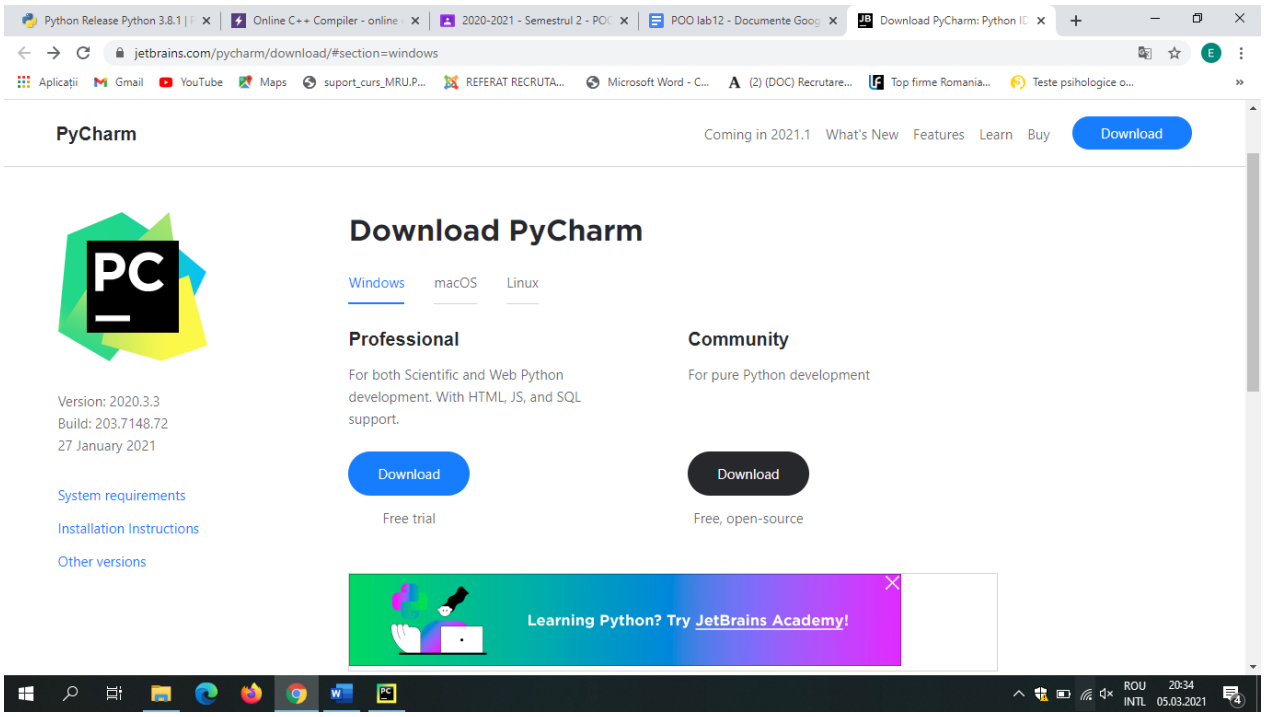
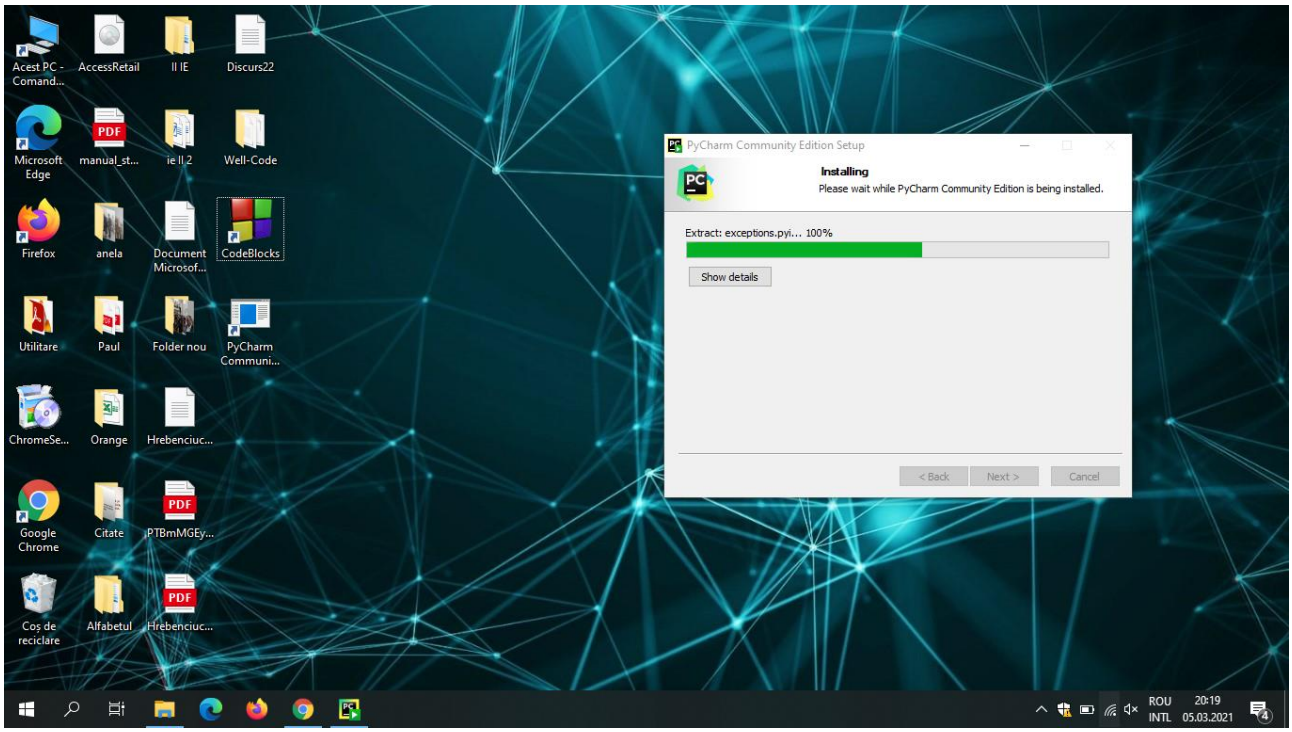
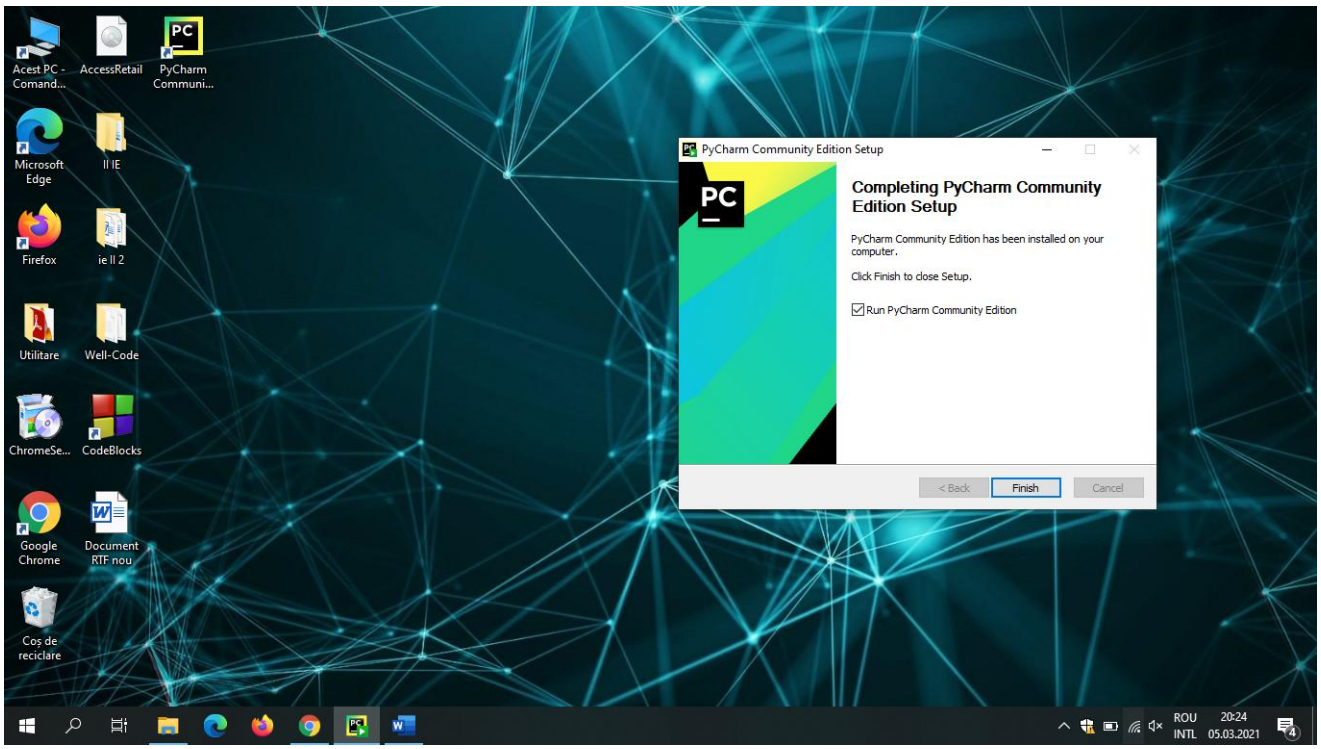
Laborator 1

Instalare setup pentru Python.






Acest PC - Comand...
AccessRetail
PyCharm Communi...
Microsoft Edge
II IE
Firefox
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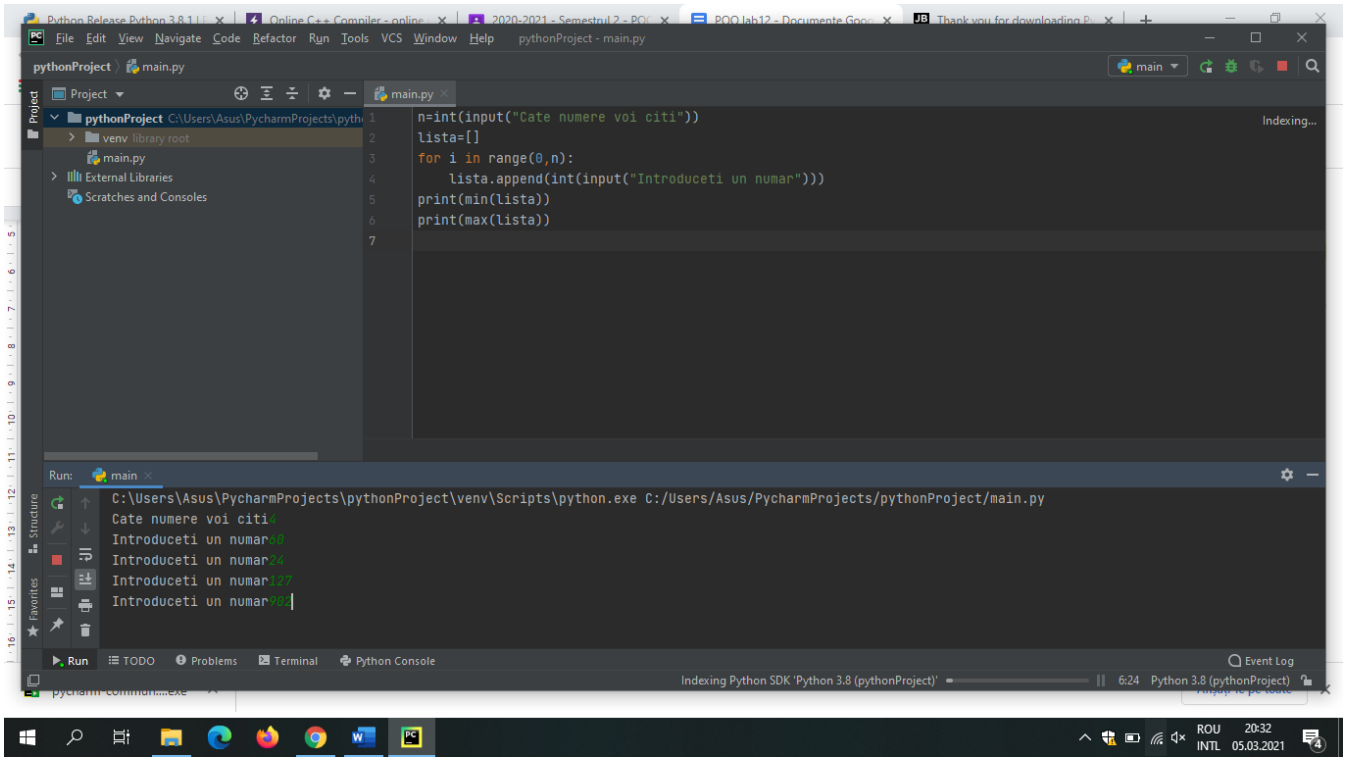
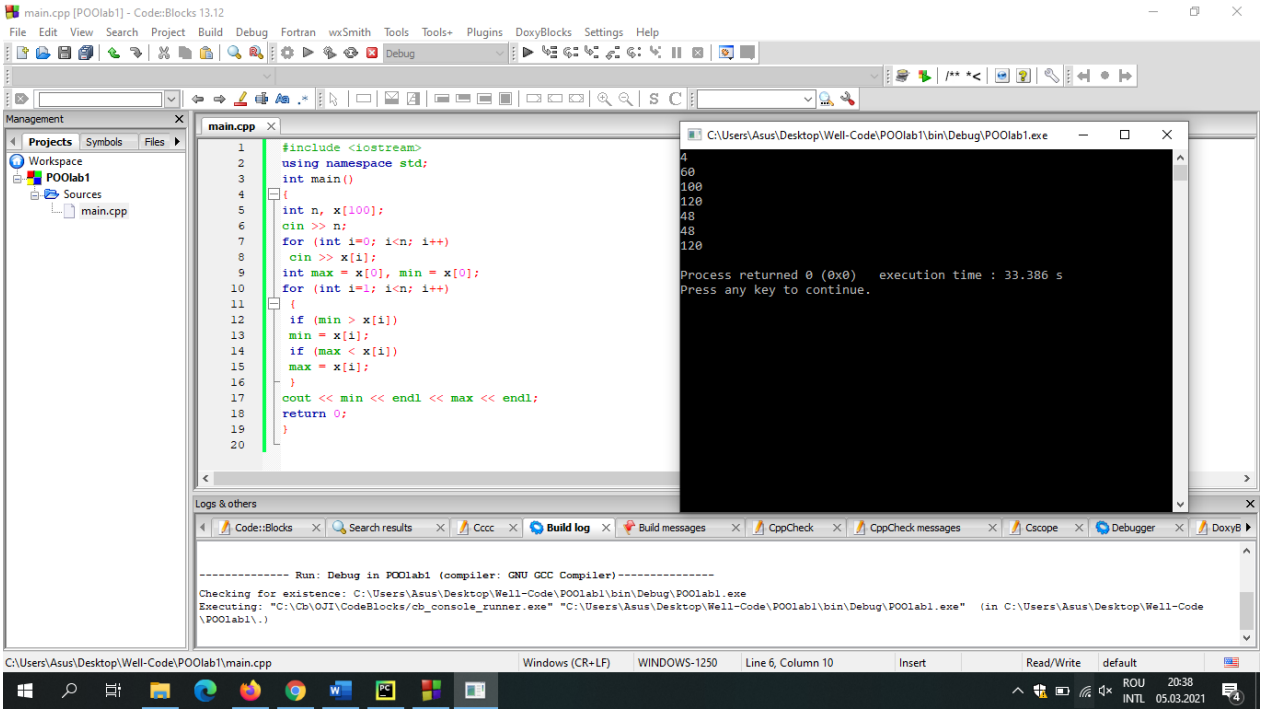
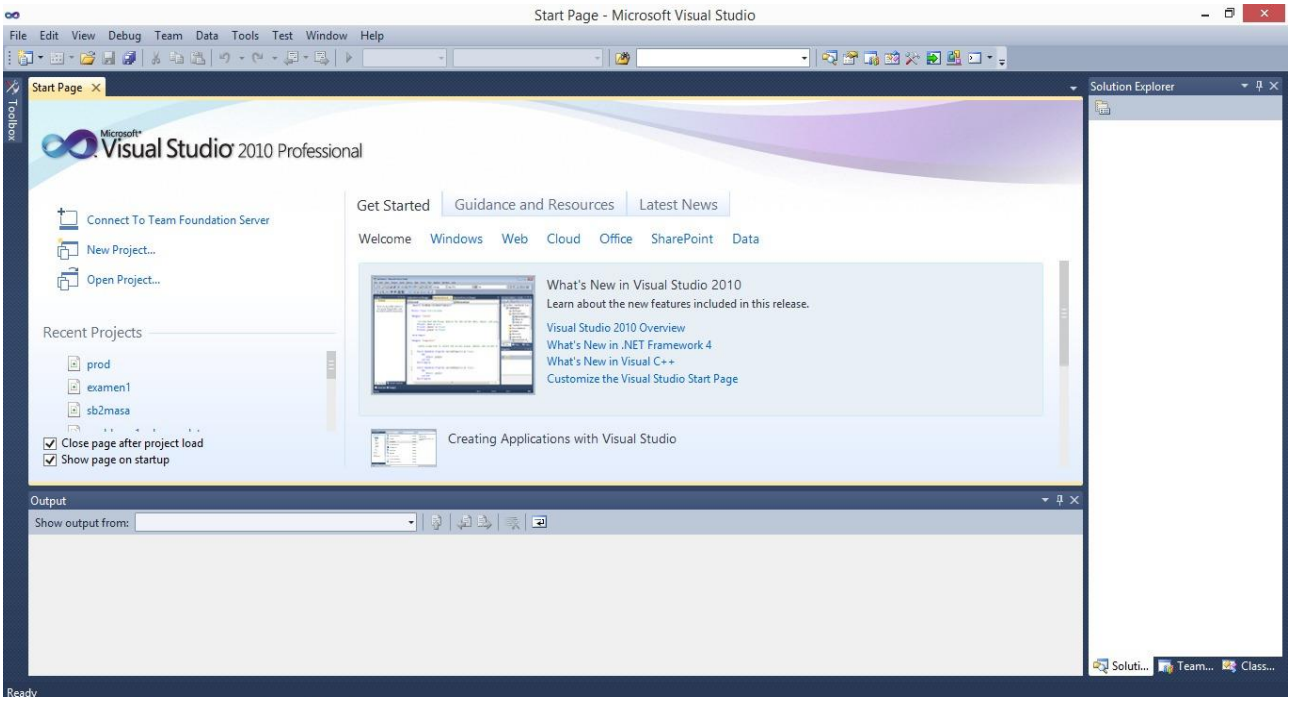
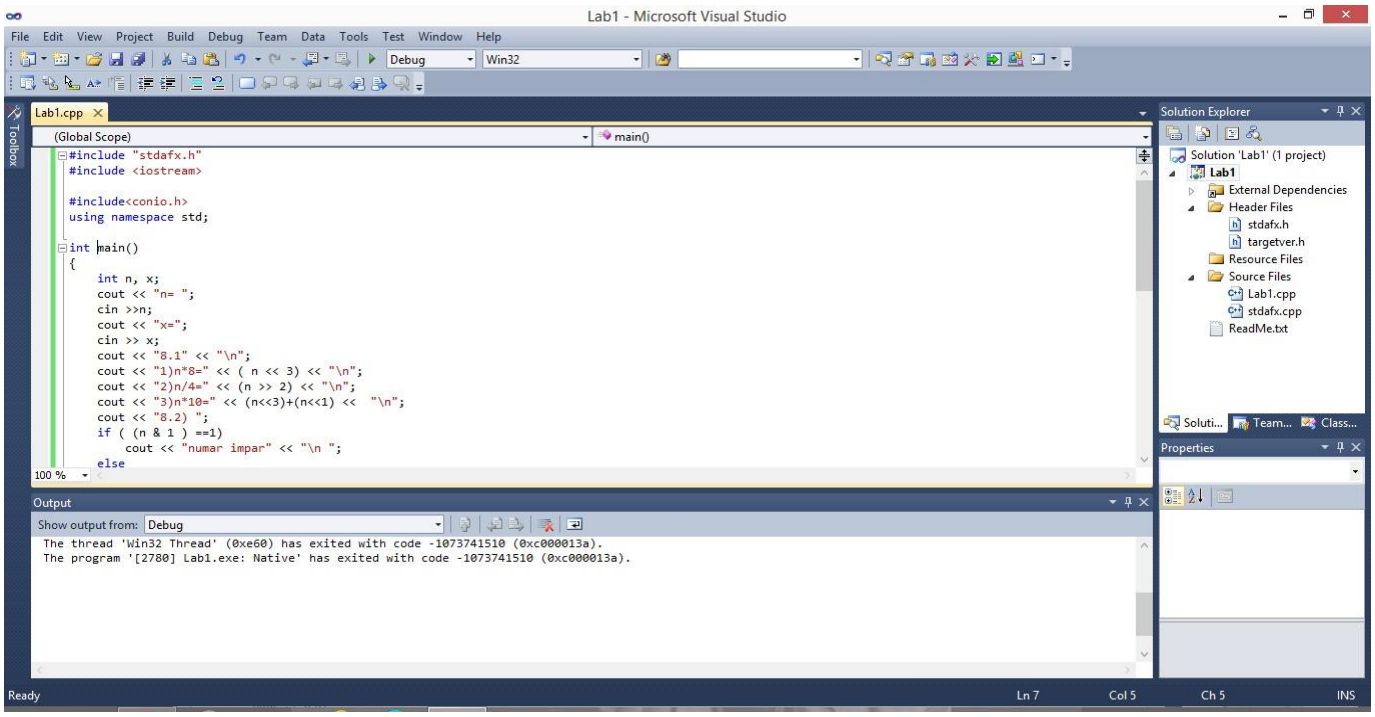
Utilitare
Well-Code
ChromeSe...
CodeBlocks
Google Chrome
Document RTF nou
Coș de reciclare
PyCharm Community Edition Setup
Completing PyCharm Community Edition Setup
PyCharm Community Edition has been installed on your computer.
Click Finish to close Setup.
Run PyCharm Community Edition
< Back
Finish
Cancel
ROU
INTL
20:24
05.03.2021


File Edit View Navigate Code Refactor Run Tools VCS Window Help
pythonProject - main.py
pythonProject
main.py
Project
pythonProject C:\Users\Asus\PycharmProjects\pyth
venv library root
main.py
External Libraries
Scratches and Consoles
n=int(input("Cate numere voi citi"))
lista=[]
for i in range(0,n):
lista.append(int(input("Introduceti un numar")))
print(min(lista))
print(max(lista))
Indexing...
Run: main
C:\Users\Asus\PycharmProjects\pythonProject\venv\Scripts\python.exe C:/Users/Asus/PycharmProjects/pythonProject/main.py
Cate numere voi citi4
Introduceti un numar60
Introduceti un numar24
Introduceti un numar127
Introduceti un numar902
Run
TODO
Problems
Terminal
Python Console
Event Log
Indexing Python SDK 'Python 3.8 (pythonProject)'
6:24
Python 3.8 (pythonProject)
ROU
INTL
20:32
05.03.2021

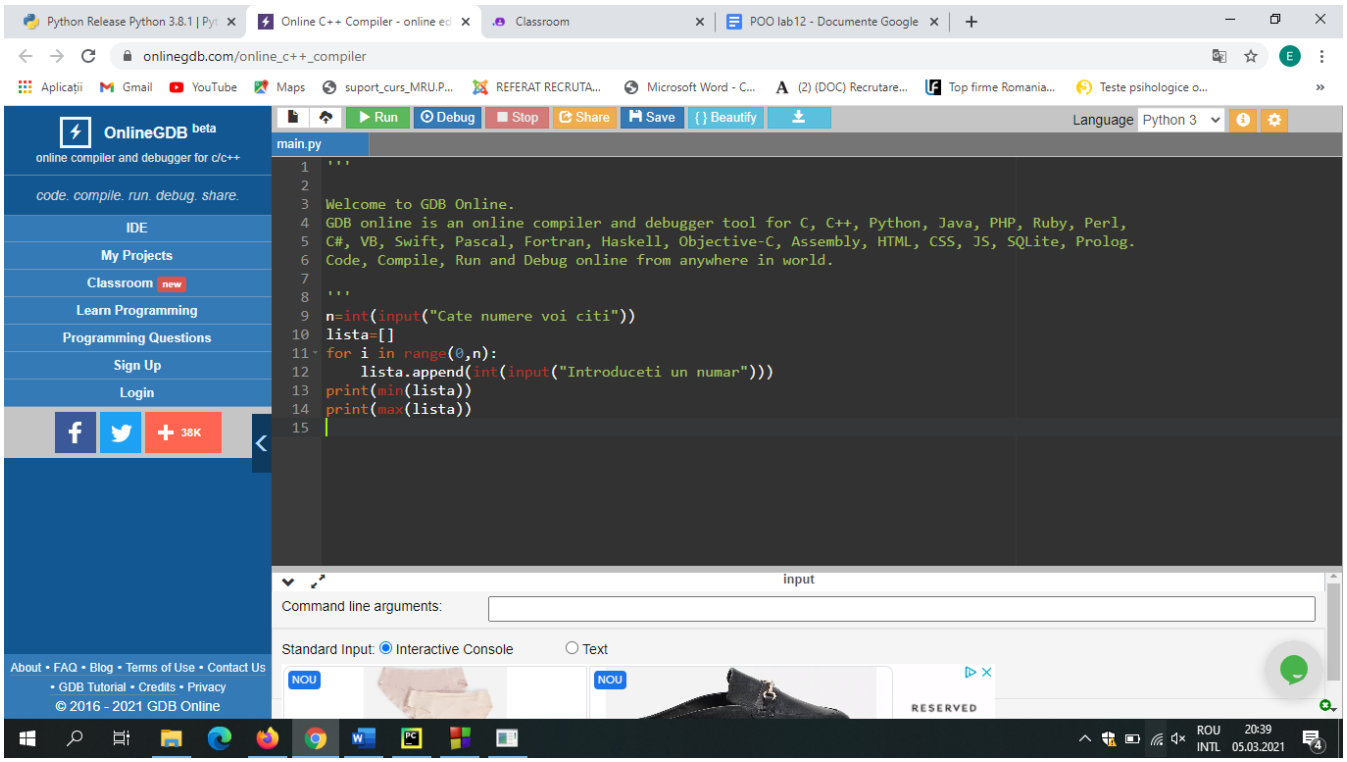
Instalare setup pentru C++.







Identificare IDE online



Laborator 2

C++

```
#include <iostream>
#include<math.h>
using namespace std;

int main()
{
	int n, k;
	cout << "dati numarul dorit n: ";
	cin >> n;
	cout << "dati numarul dorit k: ";
	cin >> k;
	cout << "8.1.1 " << endl << " n*8 = " << n * 8<<endl;
	cout << "8.1.2 " << endl << " n/4= " << n/4<<endl;
	cout << "8.1.3 " << endl << " n*10 (pe biti)= " << n * ((1 << k) + 2) << endl;
	cout << "8.2 " << endl;
	if ((n & 1) == 0)
		cout << " nr par";
	else
		cout << " nr impar ";
	cout << endl << "8.3 ";
	int x, y;
	cout <<endl<< " se citesc cele doua numere x si y: ";
	cin >> x >>y;
	cout<<" Afisare bit y din x: "<< (x >> y & 1)<<endl;
	cout << "8.4.1" << endl;
	cout << " setare la valoarea 0: " << (x & (255 ^ (1 << y))) << endl;
	cout << "8.4.2" << endl;
	cout << " setare la valoarea 1: " << (x | (1 << y)) << endl;
	cout << "8.4.3"<<endl;
	cout << " se sterge bitul y: " << (x & ~(1 << y));
	cout << endl << "8.4.4" << endl;
	cout << " se complementeaza bitul y: " << (x ^ 1 << y)<<endl;
	cout << "8.5.1 "<<endl;
	int a, b;
	cout << " a = ";
	cin >> a;
	cout << " b = ";
	cin>> b;
	a = a + b;
	b = a - b;
	a = a - b;
	cout <<" "<< a << " " << b<<endl;
	cout << "8.5.2" << endl;
	a = a ^ b;
	b = a ^ b;
	a = a ^ b;
```

```
        cout <<" "<< a << " " << b << endl;
        cout << "8.6"<<endl;
        if (n == (1 << k))
                cout << " Este ";
        else
                cout << " Nu este ";
        cout << endl << "8.7" << endl;
        int m, p, q, r;
        cout << " se citesc numerele m, p, q, r: ";
        cin >> m >> p >> q >> r;
        m = m % (int)pow(2, r);
        p = p % (int)pow(2, q);
        p = p << r;
        m = m | p;
        cout << " noua valoare a lui p este: " << p;
}
```

Phyton

```
n = int(input("n="))
k = int(input("k="))
print("8.1.1. n*8 = ",n*8)
print("8.1.2. n/4 = ",n/4)
print("8.1.3. n*10 (biti)= ",n*((1<<k)+2))
if ((n & 1) == 0)
print("8.2. Nr par")
else
print("8.2. Nr impar ")

x = int(input("x="))
y = int(input("y="))
print("8.3. Afisare bit y din x: ",x >> y & 1)
print("8.4.1. Setare la valoarea 0: ", x & (255 ^ (1 << y)))
print("8.4.2. Setare la valoarea 1: ",x | (1 << y)
print("8.4.3. Se sterge bitul y: ",x &~ (1 << y))
print("8.4.4. Se complementeaza bitul y: ", x ^ 1 << y)

a = int(input("a="))
b = int(input("b="))
print("8.5.1")
a = a + b
b = a - b
a = a - b
print(a,b)
print("8.5.2")
a = a ^ b
b = a ^ b
a = a ^ b
print(a,b)
print("8.6")
if (n == (1 << k))
print("este ")
else
```

```
print("nu este ")

print("8.7")
m = int(input("m="))
p = int(input("p="))
a = int(input("a="))
q = int(input("r="))
m = m % (int)pow(2, r)
p = p % (int)pow(2, q)
p = p << r
m = m | p
print(p)
```