

Programare Avansata pe Obiecte – Laborator 1

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I. Kit de dezvoltare:

- a. Download open-source build from: <https://jdk.java.net/11/>
- b. Extract the zip file into a folder: e.g. C:\Program Files\Java\jdk-11.0.6
- c. Edit the system environment variables to support java:
- d. Add the location of the bin folder of the JDK installation to the PATH variable in System Variables;
- e. Set JAVA_HOME: Under System Variables, click New-> Enter the variable name as JAVA_HOME -> Enter the variable value as the installation path of the JDK (where the zip file was extracted)
- f. Test the installation: open the Command Prompt and type `java -version`

II. Java Development Environment - IntelliJ

- a. Download and install an Integrated Development Environment for Java ([IntelliJ](#))

III. Git – distributed version control system

- a. Install a distributed version control system ([Git](#))

IV. GitHub

- a. Create a GitHub repository:
- b. Create a GitHub account: <https://github.com/join?source=header>
- c. Create a new repository pao-labs from <https://github.com/new>
- d. Clone the repository:

Open the Command Prompt and run the following command:

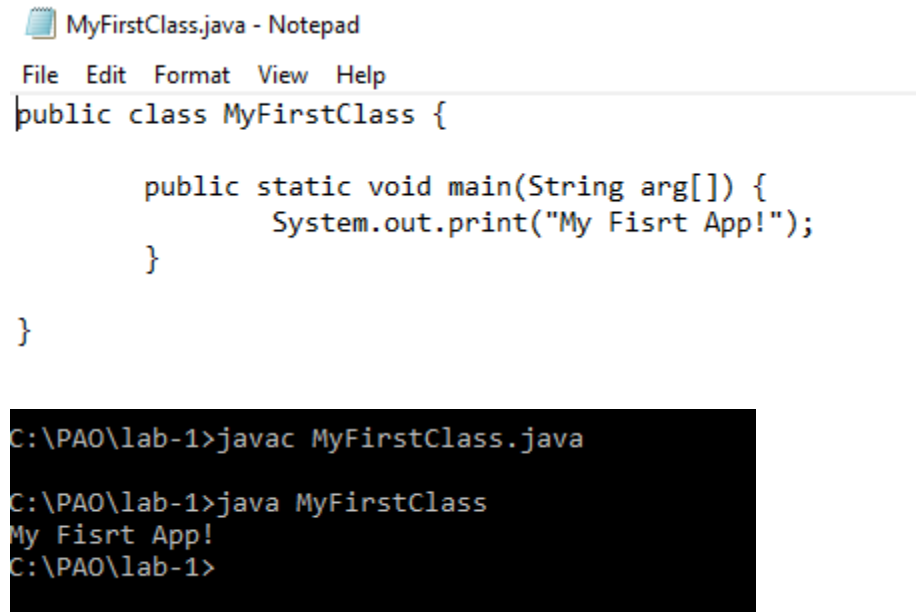
```
git clone https://github.com/<<git-username>>/pao-labs.git
```

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Proiect: 3 faze

Exemple:

1.



The screenshot shows a Notepad window titled "MyFirstClass.java - Notepad". The menu bar includes "File", "Edit", "Format", "View", and "Help". The code in the editor is a simple Java class with a main method that prints "My Fisrt App!". Below the code, a black terminal window shows the compilation and execution commands: "javac MyFirstClass.java" and "java MyFirstClass", with the output "My Fisrt App!".

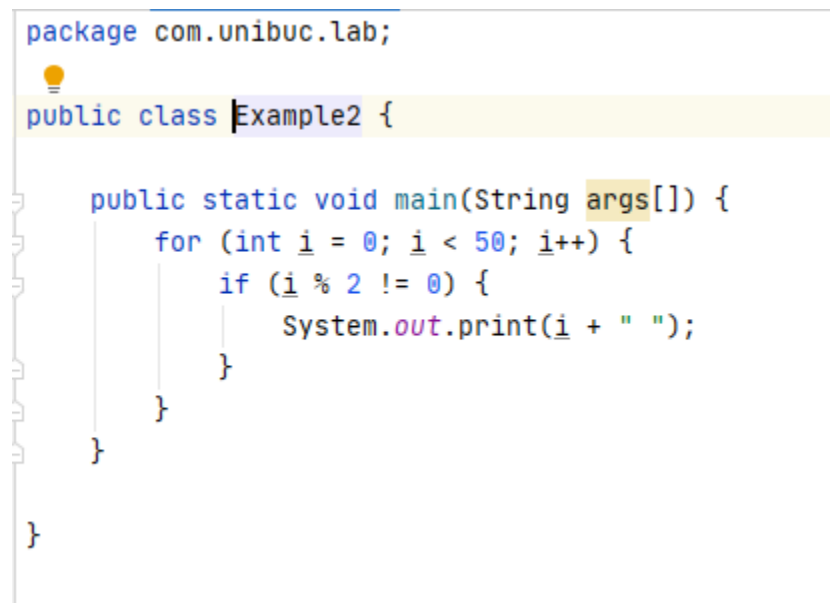
```
MyFirstClass.java - Notepad
File Edit Format View Help
public class MyFirstClass {

    public static void main(String arg[]) {
        System.out.print("My Fisrt App!");
    }

}
```

```
C:\PAO\lab-1>javac MyFirstClass.java
C:\PAO\lab-1>java MyFirstClass
My Fisrt App!
C:\PAO\lab-1>
```

2. Write a Java program to display odd numbers from 1 to 50)



The screenshot shows an IDE with a Java program. The package is "com.unibuc.lab;". The class is "Example2". The main method uses a for loop from 0 to 50, checking if the number is odd (i % 2 != 0) and printing it. The code is as follows:

```
package com.unibuc.lab;

public class Example2 {

    public static void main(String args[]) {
        for (int i = 0; i < 50; i++) {
            if (i % 2 != 0) {
                System.out.print(i + " ");
            }
        }
    }
}
```