



## HOW TO USE LEARNING TOOLS

## DESCRIPTION

This educational program has been developed for students interested in Automated Testing in Java. Entry requirements only involve computer literacy at the level of a confident user and English knowledge on the level of B1.

During the learning, theoretical knowledge will be verified by tests, while practical skills are checked with AutoCode (see a detailed introduction of the tool below).

## DISCLAIMER

**Copying and transferring any course materials to third parties is prohibited.**

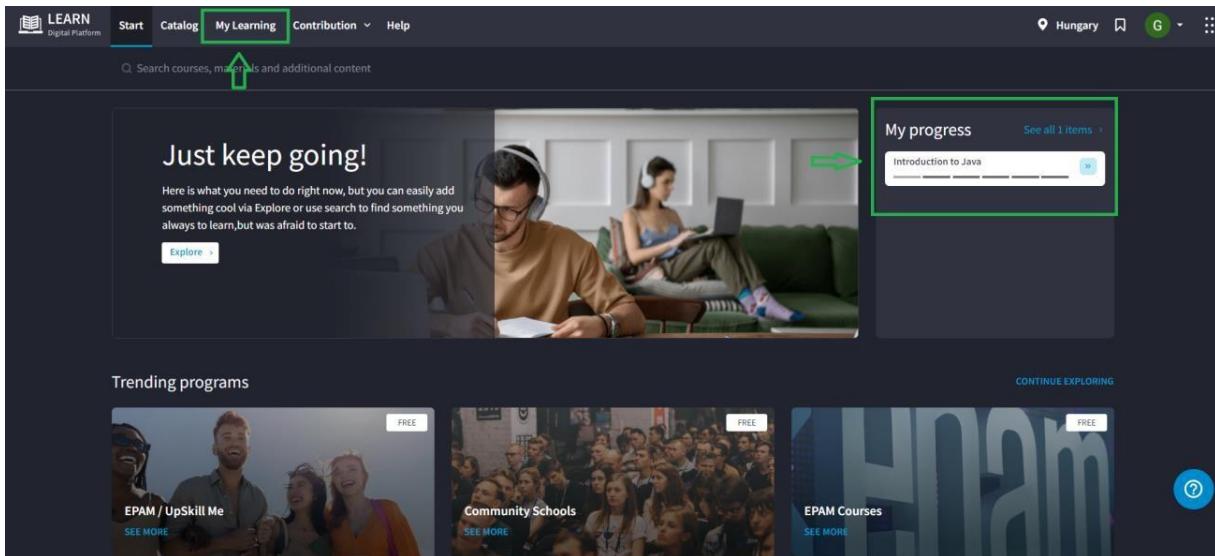
## EQUIPMENT REQUIREMENTS

- Internet connection
- PC / Laptop

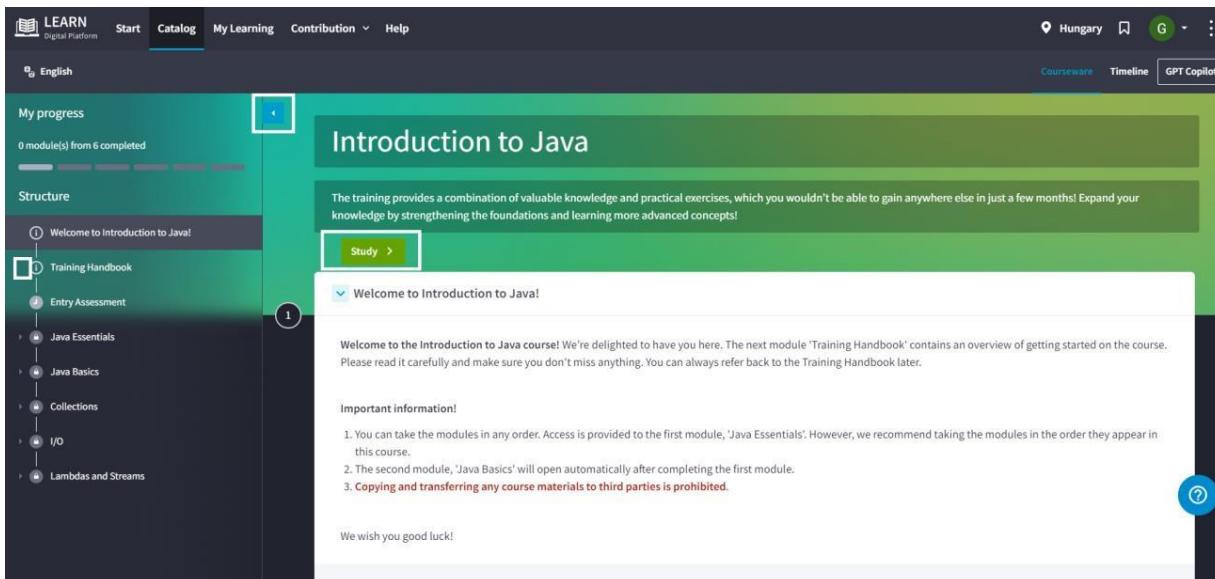
Please review how you can use Learn Portal, and get familiar with AutoCode.

## LEARN PORTAL

- Whenever you would like to proceed with the material, open [Learn portal](#) and select 'My Learning' tab to open the course, or simply click on the program highlighted on the right side of the page.



- On the main page, you can examine the structure of the program. To see your overall progress, navigate back to the 'My Learning' tab. To navigate easily between modules, expend the blue rectangle by clicking on the arrow to see the course structure. The course starts with an entry test. Click on 'view' to start the test.



The screenshot shows the EXAMINATOR Digital Platform interface. At the top, there's a navigation bar with the EXAMINATOR logo, 'Personal Assignments', and user icons for envelope, profile, and grid. Below the header, the title 'Java Essentials Entry Assessment' is displayed, along with 'Test ID: 4220'. A progress bar indicates 'Unstarted'. The main content area shows the test details: 'Expiration date: No expiration date', a 'Start' button, and a summary of the test: '1. Java Essentials Entry Assessment' (Quiz, 24 min, 0 of 1 attempt, 7 questions, Cheating detection). The status bar at the bottom shows 'Items to pass'.

Once you completed the test, the following will appear:

The screenshot shows the EXAMINATOR Digital Platform interface after the test has been completed. The title 'Java Essentials Entry Assessment' and 'Test ID: 4220' are visible. The progress bar is now green and labeled 'Completed: 12.04.2023'. A 'Leave feedback' button is present. The main content area shows the test details again, but the 'Start' button is replaced by a 'Completed' button. The status bar at the bottom shows 'Items to pass'.

Close the Examinator tab to get back to Learn Portal. Refresh the page to see the result. Notice that now you can start the first module.

My progress Continue

1 module(s) from 6 completed

Structure

- Welcome to Introduction to Java
- Training Handbook** (Passed)
- Entry Assessment (Passed) Grade: 33%
- Java Essentials
- Java Basics
- Collections
- I/O
- Lambdas and Streams

Training Handbook

**Entry Assessment**

By filling in this short test you can verify if the current level of your knowledge fits the program requirements. You can proceed with the learning regardless of your result.

After completing the test, close the Examinator browser tab, return back to this page and **refresh it** to have your results synced.

(It could take up to 10 minutes to see your results. Please fill in the test only once, and refresh the page. If this would not solve the issue, log out and wait approx. 5-10 minutes, then log back in. By then your results should be displayed, and you should be able to access the 'Java Essentials' module.)

Passed Grade: 33%

Content is locked. View

Java Basics

Java Essentials

Not Started View

3. By clicking on 'View' you can go deeper in the program structure until you access the material.

Introduction to Java » Java Essentials

## Java Essentials

**Introduction to Java Essentials**

Do you want to try your hand at Java programming, but don't know where to start? This course contains fundamental theory, relevant examples, and useful practice for a deep dive into one of the most popular programming languages.

Not Started View

**First Programs in Java**

Not Started View

**Data Types**

Not Started View

The screenshot shows the LEARN Digital Platform interface. At the top, there's a navigation bar with 'LEARN Digital Platform' logo, 'Start', 'Catalog' (which is currently selected), 'My Learning', 'Contribution', and 'Help'. On the right side of the top bar, there are icons for 'Hungary', a search bar, a user profile with 'G', and a three-dot menu. Below the top bar, there's a language selector 'English'. In the main content area, there's a breadcrumb trail: 'Introduction to Java' > 'Java Essentials' > 'Introduction to Java...'. The title 'Introduction to Java Essentials' is displayed in a large, bold font. A descriptive text follows: 'Do you want to try your hand at Java programming, but don't know where to start? This course contains fundamental theory, relevant examples, and useful practice for a deep dive into one of the most popular programming languages.' Below this, a course outline is shown in a card format: 'Introduction to the Java Essentials Course' (with a dropdown arrow), '1. Introduction' (with a circular progress bar indicating 'Not Started'), and a 'View' button which is highlighted with a green box. At the bottom left is a 'Back home' button, and at the bottom right is a help icon.

4. The course starts with an introductory module. Click ‘view’ and the following page will appear:

The screenshot shows the course page for 'Java Basics. Introduction to the Java Basics Course'. At the top, there's a breadcrumb trail: 'Home' > 'Course' > 'Introduction to Java Essentials' > 'Introduction' > 'Welcome to the Course'. Below this, there are tabs for 'COURSE', 'PROGRESS', and 'DISCUSSION'. The main content area has a 'Navigation' sidebar on the left with a 'Search' bar and a tree view of course modules: 'Introduction to Java Essentials' (expanded), 'Introduction', 'Welcome to the Course' (highlighted with a green box), 'Program and Training Formats', 'Instructions to the Course Practice', and 'Module Completion'. The main content area shows the 'Welcome to the Course' module. It features a 'PREVIOUS' button, a 'NEXT' button (highlighted with a green box), and a title 'Welcome to the Course'. Below the title is a circular icon with a person and the text 'Java Basics'. A descriptive text follows: 'Welcome to the "Java Basics" course! Java is a multipurpose language. It is one of the most popular programming languages. This course will let you make your first steps into the world of programming in Java and will build a robust basis for further development in this area.' At the bottom, it says 'After taking this course, you will be able to:' followed by a bulleted list: '• Define and explain the fundamental basics of the Java language and concepts of object-oriented programming', '• Use principal programming elements, such as variables, statements, conditional expressions, loops, and methods', and '• Use different data types: primitives, objects, arrays, strings'.

Study the content of the page then select ‘Next’ to access the consecutive pages. You can also use the dropdown menu on the left-hand side to navigate to a certain topic.

5. To complete the theoretical part, go to ‘Module completion’, click ‘Complete << Module name >>, then ‘Complete’. If you are unable to complete the module, please go through the material again making sure that you pass the interactive parts as well.

The image consists of two vertically stacked screenshots of a learning management system interface.

**Top Screenshot:** This shows the 'Module Completion' page of a course titled 'Java Basics. Introduction to the Java Basics Course'. The navigation sidebar on the left lists several modules under 'Introduction to Java Essentials' and 'Introduction'. A prominent blue button labeled 'Complete' is visible in the center of the page, with a green rectangular box highlighting it. The top navigation bar includes links for 'Home', 'Course', 'Introduction to Java Essentials', 'Introduction', and 'Module Completion'. The bottom of the screen features a footer with copyright information and links for 'Privacy Policy', 'Privacy Notice', and 'Cookies Policy'.

**Bottom Screenshot:** This shows a modal dialog box titled 'Complete learning'. It contains a message: 'After selecting Complete, you won't be able to edit the answers you gave. You still will be able to view content.' Below this message are two progress indicators: 'Passing progress: 90%' and 'Your progress: 100%'. At the bottom of the dialog are two buttons: a blue 'Complete' button highlighted with a green box, and a grey 'Cancel' button.

6. To continue learning, click on 'Home' on the left side of the page. This will bring you back to the Learn program.

Introduction to Java Essentials

Do you want to try your hand at Java programming, but don't know where to start? This course contains fundamental theory, relevant examples, and useful practice for a deep dive into one of the most popular programming languages.

1. introduction  
Passed

View

Back home

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Notice that the module is highlighted with green, and the progress bar is at 100%.

7. Click 'Back home' to navigate back to the modules. Your progress can be immediately seen on the course structure.

My progress Continue

1 module(s) from 6 completed

Structure

- 1. Welcome to Introduction to Java!
- 2. Training Handbook
- 3. Entry Assessment  
Passed
- 4. Java Essentials  
In Progress
- 5. Java Basics  
Locked
- 6. Collections  
Locked
- 7. I/O

Content is locked. View

Content is locked. See how to unlock it View

Content is locked. See how to unlock it View

8. Select 'View' to study the content of the next module.

The screenshot shows the LEARN Digital Platform interface. On the left, there's a sidebar titled 'My progress' showing '1 module(s) from 6 completed'. Below it is a tree view of course structure:

- Welcome to Introduction to Java!
- Training Handbook
- Entry Assessment** (marked with a green checkmark)
- Java Essentials** (selected)
- Java Basics
- Collections
- I/O
- Lambdas and Streams

The main content area displays the 'First Programs in Java' module. It includes:

- 1. Courseware**: A section with a brief description: "In the theoretical section, you will explore the history of development and the basics of the Java language and install the JDK and IDE on your computer. And, more importantly, you will try launching your first application." A 'View' button is present.
- Meet Autocode**: A section with a brief description: "The first practical task of the 'First Programs in Java' module." A 'View' button is present.
- Meet a Stranger**: A section with a brief description: "The first practical task of the 'First Programs in Java' module." A 'View' button is present.

Proceed with the theory described above and solve the practical exercises in Autocode. See a detailed instruction below.

Should you have any technical issues with the Learn portal, please write an email with a detailed description of the problem (preferably with a screenshot attached) to [AskLearn@epam.com](mailto:AskLearn@epam.com).

## AUTOCODE

EPAM uses AutoCode tool to verify student's exercises. Students must have a GitLab account to store their solution source codes.

### Exercises

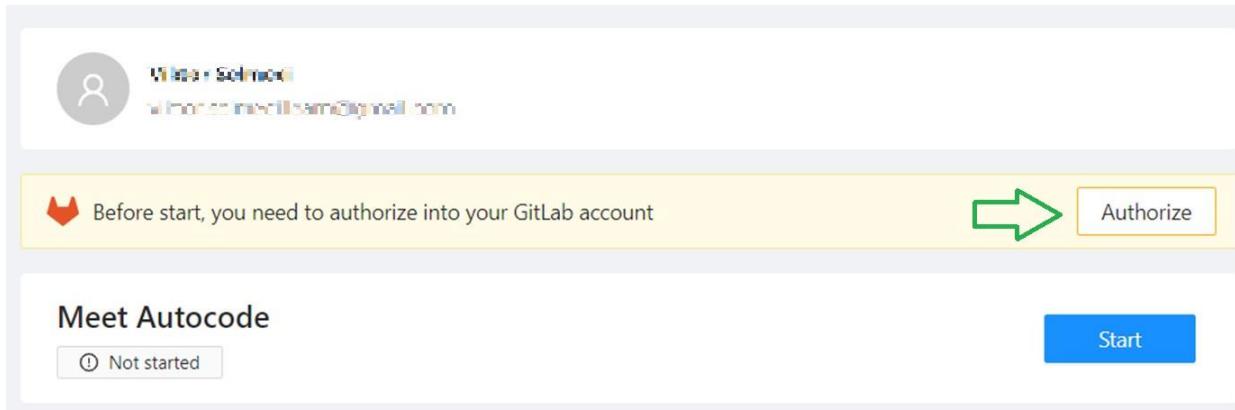
After you get familiar with the theoretical part of the topics, proceed with the practical exercises. Clicking on the 'View' button will navigate you to Autocode.

This screenshot shows the details of the 'Meet Autocode' exercise. It includes:

- The title 'Meet Autocode'.
- A description: "The first practical task of the 'First Programs in Java' module."
- A status indicator: "Not Started" with a progress bar.
- A prominent blue 'View' button.

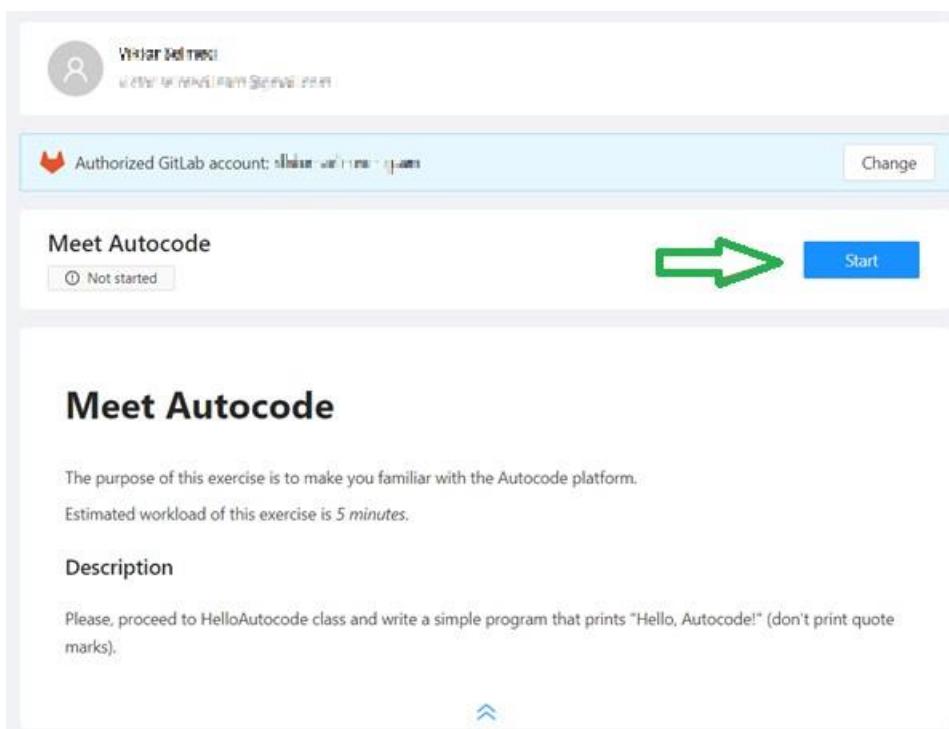
## Authorize GitLab

The first time you use Autocode, you must associate your Autocode account and GitLab account and authorize Autocode to perform modifications in GitLab on behalf of yourself. Click Authorize to give the necessary permissions.



## Start the Task

You can read the exercise description in Autocode. If you are ready to start the exercise, click on 'Start'. AutoCode will automatically create the exercise repository under your GitLab account.



## Create Project / Repository

AutoCode shows the created repository URL. By clicking on it, the browser will navigate to the GitLab repository page:

The screenshot shows the AutoCode interface. At the top, there are fields for 'Minimum pass score' (checkbox checked for 100), 'Scoring' (Details), and 'Last submission score' (0 - /100). A blue 'Finish' button is on the right. Below this, a repository card displays the name 'meet-autocode', a red heart icon, a green 'master' branch icon, and a green 'unlock scenario' icon. To the right of the repository card are 'Re-fork repository' and 'Change branch' buttons. At the bottom left is a blue 'Submit solution' button, and at the bottom right is a note 'Number of attempts: 0/10'.

## Submit Solution

You can work on your solution and commit / push your changes. Once you think it is ready for test, you can Submit your solution in AutoCode. Do not worry if it is not perfect at first, you can submit it multiple times. Make sure you submit a nice work!

If the source code does not compile yet, fix it and resubmit your solution.

## Success

After some trial, you may get a good result, Score 100.

The screenshot shows a summary of the build status. It includes a step labeled '#2 Finished' with a duration of '1 min 06 sec'. Three green checkmark icons indicate success for 'Checkout 0', 'Compile 30', and 'Test 70'. To the right, the word 'Score' is followed by a large green '100'.