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Introduction

Welcome to this document on 'Java Programming Bootcamp'.

In this bootcamp you will be learning Java as a programming language from the very basics. Java programming language is one of the crucial core skills for software developers and engineers as it forms the core for many different frameworks and development kits. You will gain a better understanding of this feature and what it entails as you further go through this document.

Features of the Bootcamp

The seven weeks of Java programming Bootcamp can be broadly divided into the following four parts:

1. The initial two weeks are based on the **fundamentals** of Java programming, which comprises the syntax, conditional and core data structures.
2. The next two weeks are dedicated to OOPs in Java. The concepts covered in these weeks are some of the hottest Java interview topics.
3. Now, the next two weeks will cover concepts such as strings, collection framework and exception handling in Java. You will also be working on an instructor-led industry project during these weeks.
4. The last week of the Bootcamp will cover some **additional concepts**, such as multithreading, lambda expressions and annotations. Advanced concepts like these will further help you in the curriculum ahead.

Once the pack commences, the learning happens through three major elements - live sessions, practice questions and practice projects, while the doubt clearing will occur through a discussion forum and TA sessions. Now, let me walk you through each of these elements one by one.

1. **Live sessions:** The first learning element is the live sessions. There will be two live sessions during the weekends of all these seven weeks of Bootcamp. These live sessions will be your primary mode of learning.

These live sessions are designed keeping in mind that the learner is new to Java and will be taken by experienced industry trainers/experts. These sessions will cover basic Java programming fundamentals along with some advanced concepts that will prepare you for the advanced programming concepts that you will use in the main curriculum.

2. **Assessments:** In order to reinforce the learnings from the Bootcamp live sessions, a set of practice questions, comprising 10 MCQs and 10 coding questions, will be uploaded on the learning platform on a weekly basis. These assessments are accessible only to the learners enrolled in the Bootcamp. You will be expected to complete the questions on a weekly basis before attending the subsequent week's sessions. These questions will not be graded.
3. **Practice projects:** The next learning element is the practice projects. During this Bootcamp, you will be provided with a number of practice projects. It is highly recommended that you attempt these projects and add them to your GitHub profile to build a strong portfolio of your Java skills.
4. **Discussion forum and TA sessions:** Now, since the Bootcamp is primarily recommended and designed for beginners, it is imperative that the learners will have a lot of doubts while learning Java programming. This is where the last learning element comes into play. A schedule for dedicated doubts resolution sessions, that is, TA sessions will also be shared with you. These sessions will be held on weekdays so that you can resolve your queries around the concepts and practice problems effectively with the help of our industry expert. Apart from the TA sessions, you can also post your doubts on the build discussion forum of the upGrad learning platform.

Now, since the Bootcamp series demands extra effort and commitment, there will be certain expectations from the enrolling students. Let's discuss this in the next section.

Expectations From the Learners Opting In for the Bootcamp

Once you have opted in for the Bootcamp, you are expected to regularly attend the live sessions and weekly practice questions on the platform diligently. The practice assessments will be a mix of basic- to intermediate-level questions and some questions (about thirty percent) might be challenging to solve. You will have one complete week to attempt these questions before the subsequent week's sessions. Hence, if you are stuck somewhere, you will be required to put effort into understanding the concepts through platform resources (previous session recordings) or by a simple Google search on '[Stack Overflow](#)'.

During the course of Bootcamp, you will be provided with weekly two live sessions of 2.5 hours each, 10 coding questions and 10 MCQs. These additional components apart from the live sessions will account for about 5-8 hours of dedicated learning depending on each learner. Overall, on average, you will be required to commit 12-14 hours per week throughout this Bootcamp.

Bootcamp Certificate

Since we have certain expectations from you if you enrol in the Bootcamp, you will also be rewarded if those expectations are met. We will be closely tracking the live session attendance and practice questions' completion rates of the learners who have enrolled in the Bootcamp. To acknowledge the learners' efforts in the Bootcamp who are diligently practising coding, we will also release leaderboard ranks intermittently based on the live attendance and performance in the platform practice questions. In addition, if you meet the following criteria, you will be given a **Bootcamp Certificate**.

- Live Session Attendance > 70%
- Bootcamp Practice Questions Attempt Rate > 70%
- Bootcamp Practice Questions Correct Rate > 50%

Important Note: Please note that the attendance for a live session will be counted only if you attend the live session for at least 70% of its duration.

We will be tracking the live session attendance and Bootcamp practice questions progress for each of the enrolled learners. In the end, the learners who meet all the above criteria given above will receive the **Bootcamp Certificate**.

Calendar Overview

Please note that the following calendar provides a high-level and somewhat tentative overview of the actual calendar. Each of the live sessions mentioned below will have a duration of 2.5 hours. The self-learning/revision and practice will account for about 5-8 hours of dedicated learning depending on each learner. Overall, on average, you will be required to commit 12-14 hours per week throughout this Bootcamp.

A few elements in the calendar agendas might be subject to change based on the responses the instructor gets during the Bootcamp session.

Week #	Session #	Session Name	Practice
Week 1	Session-01 (Saturday)	Introduction to Java	10 MCQs 10 Coding
	Session-02 (Sunday)	Java Conditionals	
Week 2	Session-03 (Saturday)	Loops	10 MCQs 10 Coding
	Session-04 (Sunday)	Structured Data in Java - 1D and 2D Arrays	
Week 3	Session-05 (Saturday)	OOP in Java - Part I	10 MCQs 10 Coding
	Session-06 (Sunday)	OOP in Java - Part II	
Week 4	Session-07 (Saturday)	OOP in Java - Part III	10 MCQs 10 Coding
	Session-08 (Sunday)	Revision and Practice Session	
Week 5	Session-09 (Saturday)	Exception Handling in Java	10 MCQs 10 Coding

	Session-10 (Sunday)	Strings in Java	
Week 6	Session-11 (Saturday)	Collection Framework in Java	10 MCQs 10 Coding
	Session-12 (Sunday)	Master Class - Hands-on Project	
Week 7	Session-13 (Saturday)	Multithreading in Java	10 MCQs 10 Coding
	Session-14 (Sunday)	Lambda Expressions and Annotations in Java	

Frequently Asked Questions

Q1. How many live sessions would be conducted during the Bootcamp and what would be the dates and times for the same?

Ans. A total of 14 live sessions will be conducted over seven weeks. The exact time of the sessions will be notified to you via communication mailers.

Q2. Are the Bootcamp sessions conducted on weekdays?

Ans. Bootcamp sessions will be conducted ONLY on weekends. Only the doubt resolution/TA sessions will be conducted on weekdays.

Q3. Will we get a Bootcamp certificate?

Ans. Yes. You will be provided with a certificate of completion of the Bootcamp if you meet the following criteria:

- Live Session Attendance > 70%
- Bootcamp Practice Questions Attempt Rate > 70%
- Bootcamp Practice Questions Accuracy Rate > 50%

Q4. What all would be taught in the Bootcamp sessions?

Ans. Kindly refer to the Bootcamp schedule. A detailed agenda will be shared with you before every live session.

Q5. What happens if I do not attend a few Bootcamp sessions?

Ans. The session recordings will be shared with you after every session. Since these sessions are interdependent, we strongly recommend that you attend all the sessions. In case you have missed any of the sessions, kindly go through the previous recording before attending the next session to ensure that you are aligned with the session topics. However, live session attendance will affect your eligibility for final Bootcamp certification.

Q6. How is Bootcamp going to help me if I am from a non-tech background?

Ans. The Bootcamp Series is specially designed for someone new to programming, where you will start off with the basics of programming and gradually build up your fundamentals.

Q7. How is Bootcamp going to help me if I am from a technical background, but I am keen to learn?

Ans. The Bootcamp series focuses on laying a solid foundation of Java programming skills. If you are someone with a prior knowledge of programming (any language) and still find it difficult to understand the basic concepts (syntaxes, data structures and control structures) in Java. Please note that the Bootcamp doesn't cover any advanced programming concepts.

Q8. What are the expectations from me in terms of time investment?

Ans. On an average, we recommend that you invest around 12-14 hours every week during the Bootcamp for attending the live sessions, going through the platform module content and self-practice. This duration might vary depending on how quickly you are able to grasp the concepts.