🚀 **200 DAYS JAVA DSA SERIES**

🎯 **DAY 03:INTELLIJ IDEA INSTALL |**
JAVA FIRST PROGRAM + MAIN() METHOD GUIDE

🌟 **IDE Kya Hai?**

1.IDE ka full form – Integrated Development Environment.
👉 Yeh ek aisa software hai jo coding ke liye zaruri saare tools ek jagah deta hai.
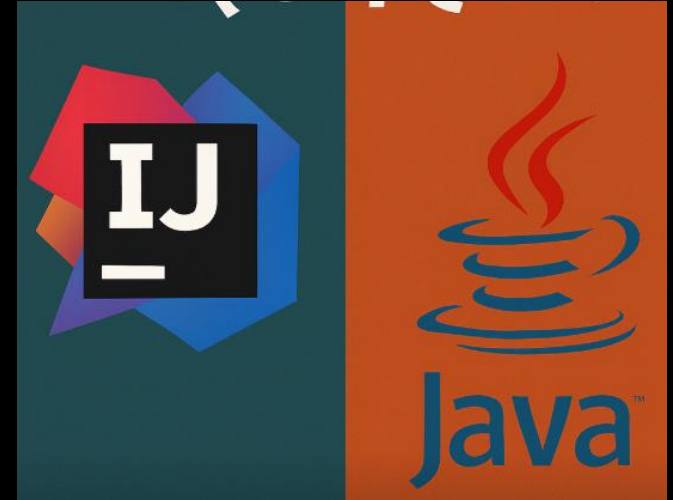
2.Software developers ka toolbox –
👉 Isme code likhne (writing), error dhoondhne (debugging), aur program test karne ke tools hote hain.

3.Coding ka ek central place –
👉 Developer isi ek jagah se code likhta hai, chalata hai aur problem solve karta hai.

4.Developer ki efficiency badhane ke liye –
👉 IDE is tarah design kiya gaya hai ki developer fast aur smart tarike se kaam kar sake.

✨ 2.9 Need of IDE – IDE kyon zaruri hai?

1.Development ko easy aur fast banata hai
👉 IDE har step ko streamline karta hai – coding se lekar testing tak.

2.Productivity badhata hai
👉 Developer kam time mein zyada kaam kar pata hai, errors jaldi pakadta hai.

3.Mushkil tasks ko simple bana deta hai
👉 Jaise debugging, file handling, aur integration tasks ko easy bana deta hai.

4.Sab tools ek hi jagah milte hain
👉 Ek single workspace mein code editor, terminal, debugger, aur version control sab hota hai.

🛠️ IDE ke Features – IDE mein kya-kya hota hai?

1.Code Autocomplete
👉 Aap type karte ho, IDE smart suggestion de deta hai – time bachta hai aur galtiyan kam hoti hain.

2.Syntax Highlighting
👉 Code color-coded hota hai – isse read karna easy ho jata hai aur bugs easily dikhai dete hain.

3.Version Control Integration
👉 Git jaise tools ke through aap code ka backup, tracking aur teamwork easily manage kar sakte ho.

4.Error Checking
👉 IDE turant batata hai ki code mein kaha galti hai – compile ya run karne se pehle hi.

☕ Java ke liye Popular IDEs

IDE Name	Best For	Free/Paid	Special Features
Eclipse	Large Java Projects	Free (Open Source)	Plugin support, Flexible
IntelliJ IDEA	Smart Coding	Free + Paid	AI Code Assist, Fast UI
NetBeans	Beginners & GUI Dev	Free	Drag-drop GUI, Oracle Support
BlueJ	Students/Learning	Free	Easy Interface, Class Diagrams
JDeveloper	Enterprise Applications	Free	Oracle Tools Integration

🔧 Installing IntelliJ IDEA – Step-by-Step

❑ **Step 1: Website par jao**
👉 Apne browser mein open karo:
https://www.jetbrains.com/idea

❑ **Step 2: Edition choose karo**
👉 Do versions milte hain:
•**Community Edition** – Free & open-source (Java ke liye best for students & beginners)
•**Ultimate Edition** – Paid, with extra features (web dev, frameworks, etc.)
➡ **Community Edition** par "Download" button dabao.

IntelliJ IDEA

The IDE for Professional Development

in Java and Kotlin

Download

❏ **Step 3: Installer download karo**
👉 Apne OS ke according download karo (Windows / macOS / Linux)

❏ **Step 4: Installer run karo**
👉 Download hone ke baad installer file par double-click karo.
👉 "Next" karte jao aur default settings select karo (change karne ki zarurat nahi hoti beginners ke liye).

❏ **Step 5: IntelliJ install hone do**
👉 Installation complete hone ke baad "Finish" button dabao.

❏ **Step 6: IntelliJ IDEA open karo**
👉 Pehli baar open karne par puchhega:
"Do you want to import settings?" – Select "Do not import" (agar pehli baar install kar rahe ho).

❏ **Step 7: Java Project banane ke liye JDK install karo (agar pehle nahi hai)**
👉 IntelliJ khud detect karega agar JDK installed nahi hai.
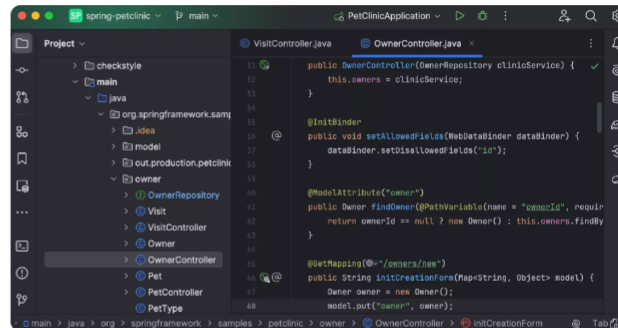👉 Download & install karne ka option dega – bas follow karo instructions.

IntelliJ IDEA Ultimate

The IDE for Professional Development in Java and Kotlin

Download | **.exe (Windows)** ▼

Free 30-day trial

Version: 2025.1.2
Build: 251.26094.121
4 June 2025

System requirements
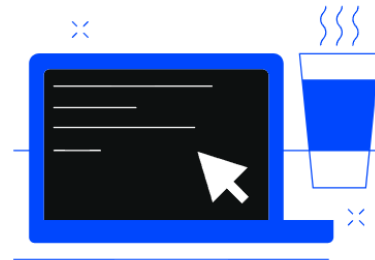Installation instructions

Other versions
Third-party software

Thank you for downloading IntelliJ IDEA!

Your download should start shortly. If it doesn't, please use the direct link.

Download and verify the file SHA-256 checksum.

Learn more about the digital signatures of JetBrains binaries.
Third-party software used by IntelliJ IDEA Ultimate Edition

IntelliJ IDEA Setup

Installing

Please wait while IntelliJ IDEA is being installed.

Extract: lib-client.jar... 91%

Show details

< Back   Next >   Cancel

IntelliJ IDEA Setup

Completing IntelliJ IDEA Setup

IntelliJ IDEA has been installed on your computer.

Click Finish to close Setup.

☐ Run IntelliJ IDEA

< Back   Finish   Cancel

IntelliJ IDEA

Import Settings

JetBrains IDEs ⌄

Visual Studio Code

Skip Import

Other Options ⌄
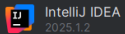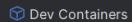
IntelliJ IDEA
2025.1.2

Projects

Remote Development
- SSH
- WSL
- Dev Containers

Kotlin Notebooks

Customize

Plugins

Learn

Welcome to IntelliJ IDEA

Create a new project to start from scratch.
Open existing project from disk or version control.

New Project   Open   Clone Repository

IntelliJ IDEA
2025.1.2

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SSH

WSL

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Kotlin Notebooks

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Plugins

Learn

Appearance

Theme: Dark

Sync with OS

Editor color scheme: Dark Theme default

Language and Region

Language: English   Requires restart

Region: Not specified

Accessibility

IDE font: 20.0

Adjust colors for red-green vision deficiency   How it works

Requires restart. For protanopia and deuteranopia.

Keymap

Windows   Configure...

Import Settings...

IntelliJ IDEA
2025.1.2

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Welcome to IntelliJ IDEA

Create a new project to start from scratch.

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New Project

Open

Clone Repository

New Project

Name: Java first project

Location: ~\IdeaProjects

Project will be created in: ~\IdeaProjects\Java first project

☐ Create Git repository

New Project
- Java
- Kotlin
- Groovy
- Empty Project

Generators
- Maven Archetype
- Jakarta EE
- Spring Boot
- JavaFX
- Quarkus
- Micronaut
- Ktor
- HTML
- React
- Express
- Angular CLI
- Vue.js

Build system: IntelliJ | Maven | Gradle

JDK: Oracle OpenJDK 24.0.1 C:\Program Files\Java\jdk-24

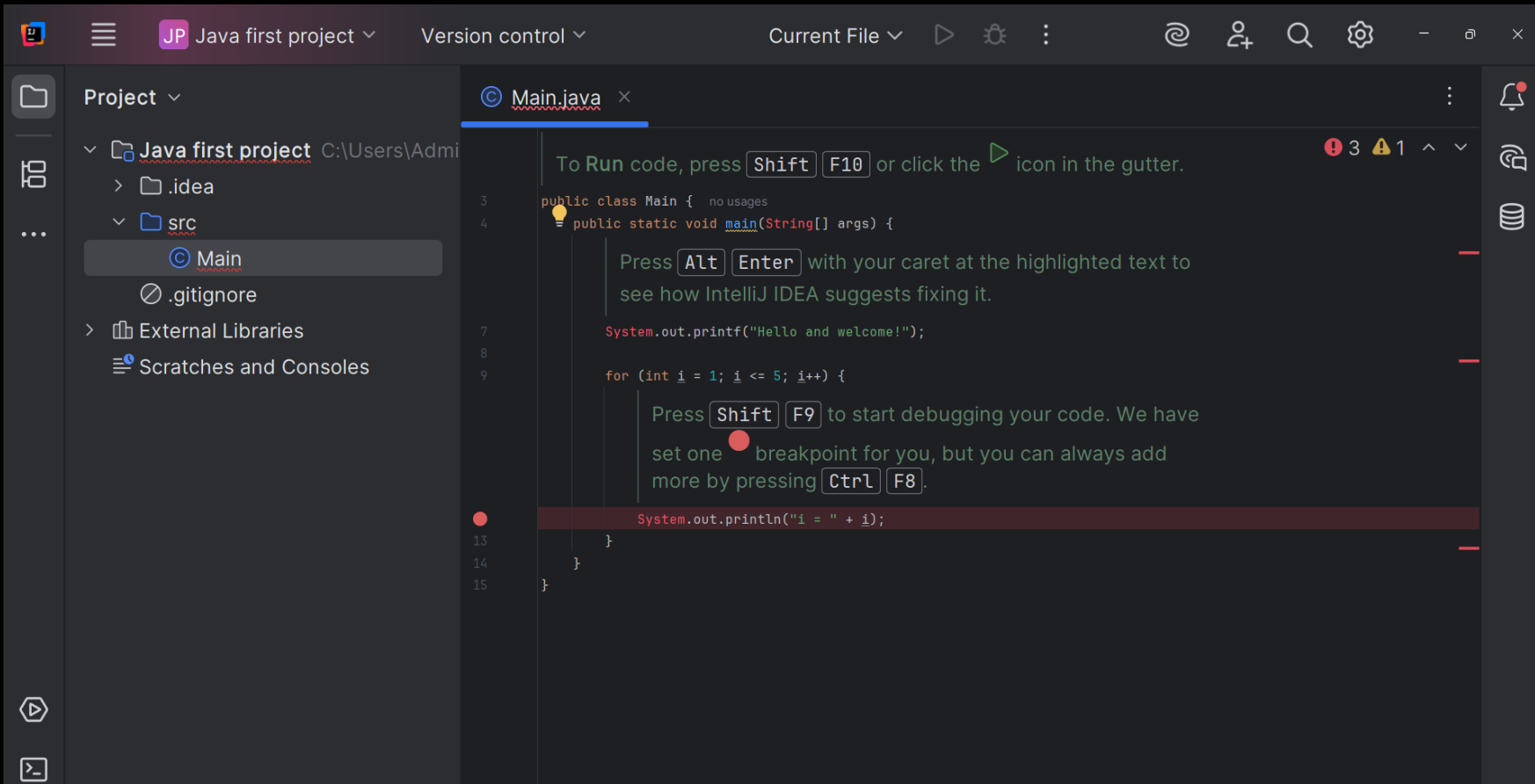<No JDK>

⬇ Download Oracle OpenJDK 24.0.1

⬇ Download JDK...

Add JDK from Disk...

Detected JDKs

Oracle OpenJDK 24.0.1 C:\Program Files\Java\jdk-24

Oracle OpenJDK 22 C:\Program Files\Java\jdk-22

☑ Add sample

> Advanced S

Create | Cancel

Version control

Current File

Project

- Java first project C:\Users\Admi
  - .idea
  - src
    - © Main
    - .gitignore
  - External Libraries
  - Scratches and Consoles

To **Run** code, press `Shift` `F10` or click the ▷ icon in the gutter.

```java
public class Main {    no usages
    public static void main(String[] args) {

        Press Alt Enter with your caret at the highlighted text to
        see how IntelliJ IDEA suggests fixing it.

        System.out.printf("Hello and welcome!");

        for (int i = 1; i <= 5; i++) {

            Press Shift F9 to start debugging your code. We have
            set one ● breakpoint for you, but you can always add
            more by pressing Ctrl F8 .

            System.out.println("i = " + i);
        }
    }
}
```

First Java Class

```java
public class Main{
    public static void main(String[] args) {
        System.out.println("JK");
    }
}
```

Showing Output

Example	Result
System.out.print("one"); System.out.print("two"); System.out.println("three");	onetwothree
System.out.println("one"); System.out.println("two"); System.out.println("three");	One Two three
System.out.println();	[new line]

Importance of the main method

🚀 **Main Method in Java – HiEnglish Explanation**

◆ **1. Entry Point of Program**

👉 main() method Java program ka **starting point** hota hai.

🗣 JVM (Java Virtual Machine) yahin se program ko chalana start karti hai.

➡️ Agar main() method nahi hoga, to program run hi nahi hoga.

2. Must be public and static

👉 public: taaki JVM is method ko kahin se bhi access kar sake.

👉 static: JVM bina object banaye hi is method ko run kar sake.

📝 Isliye main() ko **object create kiye bina** execute kiya ja sakta hai.

3. Fixed Signature is required

👉 Java ka main method ka **signature fix** hota hai:

public static void main(String[] args)

✔ Agar aap isme kuch bhi change karoge (e.g., spelling, order, type),
❌ JVM isse **main method** nahi maanega → program run nahi karega.

public static void main(String[] args)

Feature	Reason (HiEnglish)
public	JVM ko method sab jagah se access karna hota hai
static	Bina object banaye JVM method ko run kar sake
void	Method kuch return nahi karta
main	Ye method JVM ke liye special hoti hai — yahin se program start hota hai
String[] args	Command line arguments accept karne ke liye

jayesh_kande_ ⌄ 🔴

Jayesh Kande

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रास्ते बदलो, मंजिल नहीं

🔗 yt.openinapp.co/0y0qd

Folllow me on

@jayesh_kande_

JK Coding Pathshala

Kbt engineering college nashik
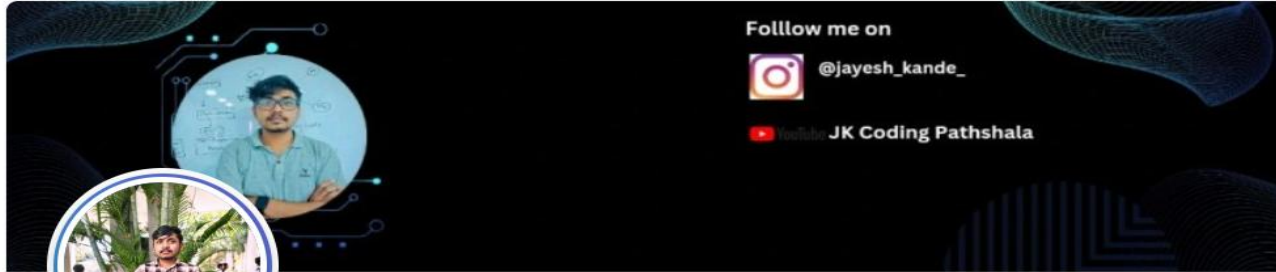
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Nashik, Maharashtra, India · **Contact Info**

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