**Install JDK on Windows – Quick Steps**

1. **Download JDK**  
    Go to: <https://www.oracle.com/java/technologies/javase-downloads.html> → Download the Windows installer (e.g. JDK 21)
2. **Install JDK**  
    → Run the installer  
    → Note the install path (e.g., C:\Program Files\Java\jdk-21)
3. **Set Environment Variables**
   1. Search for **Environment Variables** in Start Menu
   2. Under **System Variables**:
      1. Click **New** →  
          **Name**: JAVA\_HOME  
          **Value**: C:\Program Files\Java\jdk-21
      2. Edit **Path** → Click **New** → Add:  
          %JAVA\_HOME%\bin

### **GitHub Account Creation (Short Steps)**

1. Go to [https://github.com](https://github.com/)
2. Click **Sign up**
3. Enter:
   1. **Username**
   2. **Email**
   3. **Password**
4. Click **Create account**
5. Verify your **email** (enter the code sent)
6. Choose **Free plan**
7. Done! 🎉

### **GitHub Basics – Commands & Usage**

|  |  |
| --- | --- |
| **Command** | **Usage** |
| git init | Initialize a new Git repo in current folder |
| git clone <url> | Copy a GitHub repo to your local machine |
| git add <file> | Stage file(s) for commit |
| git commit -m "msg" | Save changes with a message |
| git push | Upload local commits to GitHub |
| git pull | Get latest changes from GitHub |
| git branch | List branches (or create with -b <name>) |
| git merge <branch> | Merge branch into current branch |

### **Example Workflow:**

Git bash Commands

git init  
git add .  
git commit -m "First commit"  
git branch -b main  
git remote add origin <repo-url>  
git push -u origin main

### **IntelliJ IDEA Installation – Windows**

1. **Download IntelliJ**
   1. Go to: <https://www.jetbrains.com/idea/download>
   2. Choose the **Community** version (free)
   3. Click **Download**
2. **Run the Installer**
   1. Open the .exe file
   2. Follow the setup wizard:
      1. Choose install location
      2. Select:
         1. 64-bit launcher
         2. .java file association (optional)
3. **Complete Installation**
   1. Click **Install**
   2. Once done, click **Finish**
4. **First Launch**
   1. Open IntelliJ IDEA
   2. Choose a theme (light/dark)
   3. Skip or log in to JetBrains account (optional)
5. **Create a Java Project**
   1. Click **New Project**
   2. Select **Java** → Set SDK (use installed JDK)
   3. Name your project and start coding!

## **Step-by-Step: Connect GitHub to IntelliJ & Push Code**

### **1. Set Up Git in IntelliJ**

* Open **IntelliJ IDEA**
* Go to: File > Settings > Version Control > Git
* Make sure Git is installed:
  + Set path to Git: C:\Program Files\Git\bin\git.exe (usually auto-detected)
  + Click **Test** to verify.

### **2. Add Your GitHub Account**

* Go to: File > Settings > Version Control > GitHub
* Click **+** to add account
  + Choose **Log in via GitHub**
  + Enter your GitHub **username & password**, or log in with browser/token.

### **3. Share Project on GitHub**

* Open your IntelliJ project
* Go to: VCS > Import into Version Control > Share Project on GitHub
* Enter:
  + Repository Name
  + Description (optional)
* Click **Share**

### **4. Push Your Code to GitHub**

After sharing:

1. Go to: VCS > Commit
   1. Select files to commit
   2. Write a commit message
   3. Click **Commit**
2. Then: VCS > Git > Push
   1. Confirm the branch and remote
   2. Click **Push**

### **You're Done!**

Your code is now on GitHub 🎉  
 Check it at: <https://github.com/your-username/your-repo-name>