

Run Java Applet Program in Browsers with the Latest JDK in VS Code

How to run applet programs in vs code?



Gaurav Chaudhari · Follow

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Do you remember those fun interactive programs on websites called Java applets? They used to make the web more exciting, but they gradually disappeared due to security concerns. However, there's good news! With the latest JDK (Java Development Kit), we can revive Java applets and run them again in modern web browsers. In this blog, we'll show you how to do it step by step, so you can experience the charm of Java applets once more! Let's get started!

Step 1:

To start working with Java applets in VS Code, you'll first need to ensure you have the latest JDK version installed on your system. You can download the latest JDK from the official Oracle website or other trusted sources.

Step 2:

Running Java Applet Programs in VS Code with the Latest JDK we have to download CheerpJ Applet Runner :

To download the CheerpJ Applet Runner, you can follow these general steps:

1. Open your preferred web browser and search for “CheerpJ Applet Runner” or visit the official CheerpJ website(<https://chrome.google.com/webstore/detail/cheerpj-applet-runner/bbmolahhldcbngedljfadjlognfaaein>).
2. Look for a “Downloads” or “Get” section on the website to find the link to download the CheerpJ Applet Runner.
3. Click on the Get button, and the file should start downloading to your computer.



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Step 3:

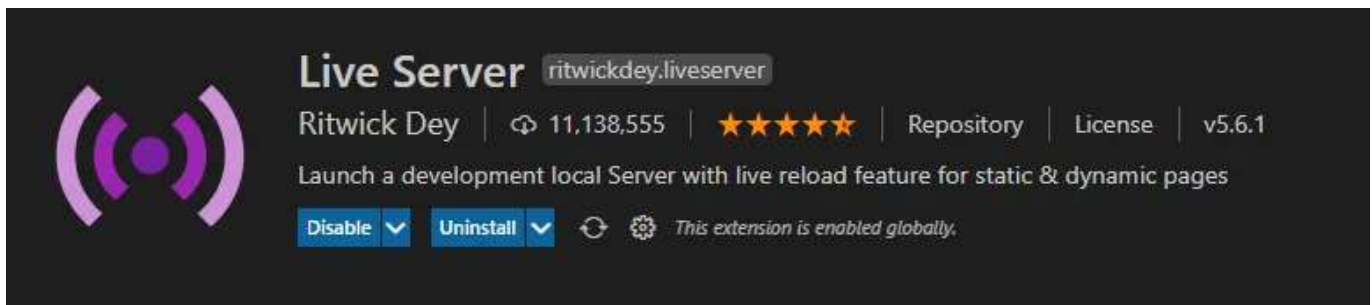
Then go to VS Code, where you'll need to install the “Live Server” extension. This extension is essential for serving the HTML page that contains your

converted Java applet. It will create a local server, allowing you to view and interact with the applet in your web browser.

1: Open VS Code and navigate to the Extensions view by clicking on the Extensions icon on the sidebar or pressing `ctrl+Shift+X` (Windows/Linux) or `Cmd+Shift+X` (macOS).

2: In the Extensions view, search for “Live Server” in the search bar.

3: Click the “Install” button next to the “Live Server” extension.



Step 4:

To run a Java applet in VS Code using CheerpJ and “Live Server,” you’ll need the Java applet code itself and an HTML file with the applet tag. The HTML file should reference the Java applet class file using the “code” attribute in the applet tag.

Here’s an example of how the Java applet code, the HTML file, and the applet tag should look:

1. Java Applet Code (ExampleApplet.java)

```
import java.applet.Applet;
import java.awt.Graphics;

public class ExampleApplet extends Applet {
    public void paint(Graphics g) {
        g.drawString("Hello, Java Applet!", 20, 20);
    }
}
```

1. HTML File (index.html):

```
<!DOCTYPE html>
<html>
<head>
    <title>Java Applet with CheerpJ</title>
</head>
<body>
    <h1>Java Applet with CheerpJ</h1>
    <applet code="ExampleApplet.class" width="300" height="200">
        Your browser does not support Java applets. Please make sure Java is ena
    </applet>
</body>
</html>
```

In the above code, make sure to replace “ExampleApplet” with the actual name of your Java applet class file (without the .class extension).

Additionally, the applet tag specifies the width and height of the applet display area. The content inside the applet tag will be displayed in case the browser does not support Java applets.

Remember to place both the Java applet code (ExampleApplet.java) and the HTML file (index.html) in the same directory within your VS Code project.

Step 5:

Once you have the Java applet code (ExampleApplet.java) and the HTML file (index.html) ready in your project directory, it's time to compile the Java program to create the .class file. Here's how you can do it in a new terminal:

1: Open a new terminal in VS Code by clicking on the “Terminal” menu and selecting “New Terminal.”

2: Navigate to the directory where your Java applet code (ExampleApplet.java) is located using the `cd` command. For example:

```
cd path/to/your/project/directory
```

3: Compile the Java applet code using the `javac` command to generate the .class file:

```
javac ExampleApplet.java
```

If there are no errors in your Java code, you should see the .class file created in the same directory as your ExampleApplet.java file.

Note: If you encounter any warnings, it's usually okay to proceed unless they are related to critical issues. Warnings often indicate potential improvements but don't prevent your applet from running.

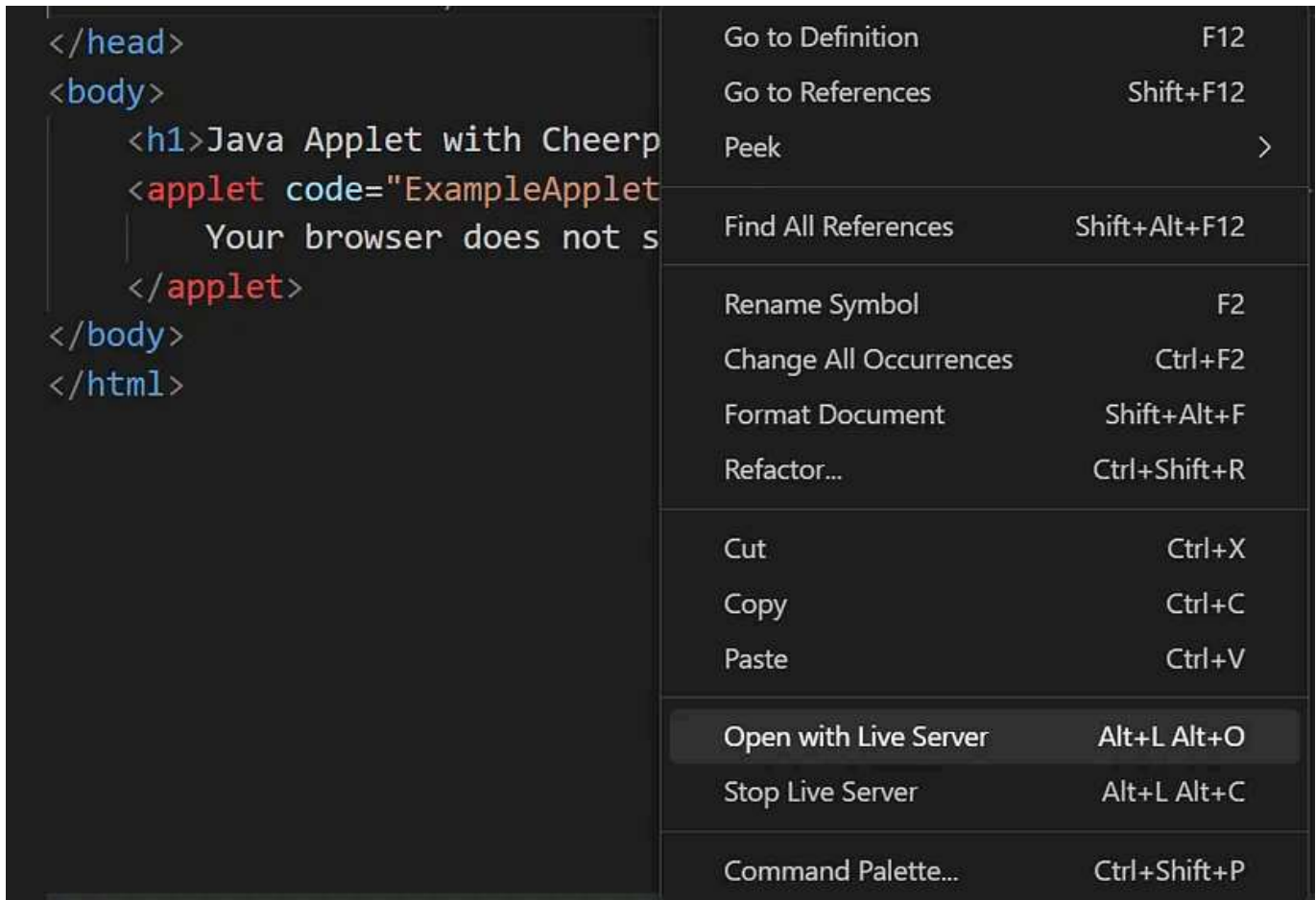


```
PROBLEMS 1 OUTPUT DEBUG CONSOLE TERMINAL powershell + - [ ] [X] ... ^ X
PS C:\Users\91866\Desktop\Java> javac ExampleApplet.java
ExampleApplet.java:5: warning: [removal] Applet in java.applet has been deprecated and marked for removal
public class ExampleApplet extends Applet {
                                   ^
1 warning
PS C:\Users\91866\Desktop\Java> 
```

Ln 9, Col 2 Spaces: 4 UTF-8 CRLF {} Java Port: 5500

Now that you have successfully compiled your Java applet code and generated the .class file, it's time to see your applet in action using “Live Server.” Go back to your HTML file (index.html) in VS Code and make sure it contains the correct applet tag with the “code” attribute, as shown in the previous example.

Then, right-click anywhere inside the HTML file and select “Open with Live Server” from the context menu. A new browser tab will open



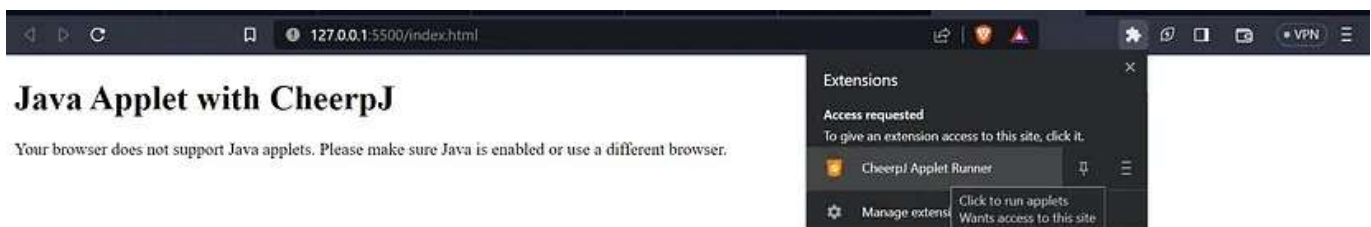
Step 6:

After a new browser tab will open click on Extensions



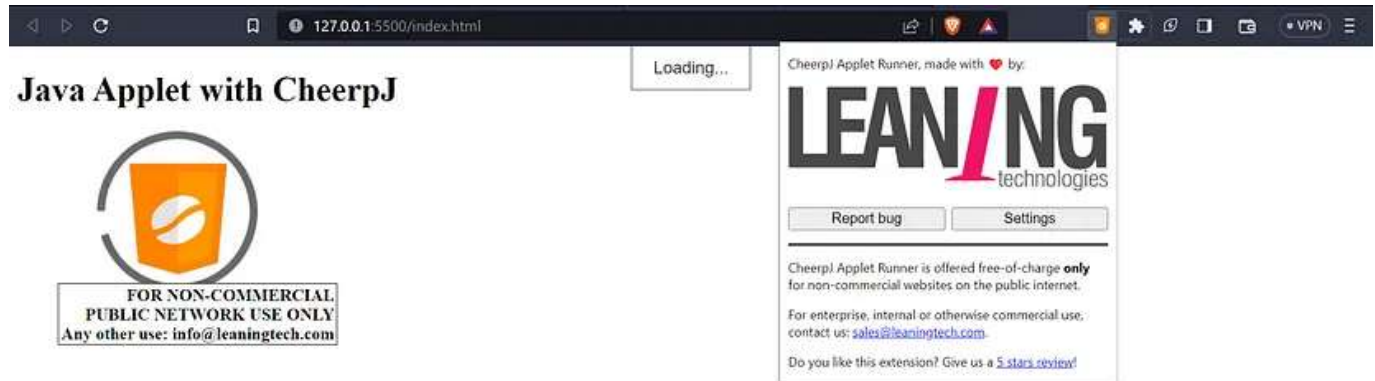
Step 7:

Select CheerpJ Applet Runner



Step 8:

You should see your Java applet running in the browser



Step 9:

Applet code output



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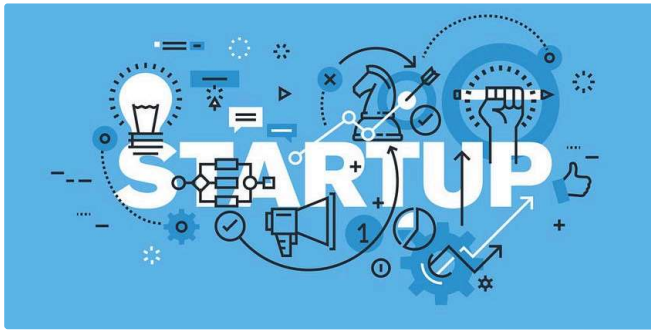
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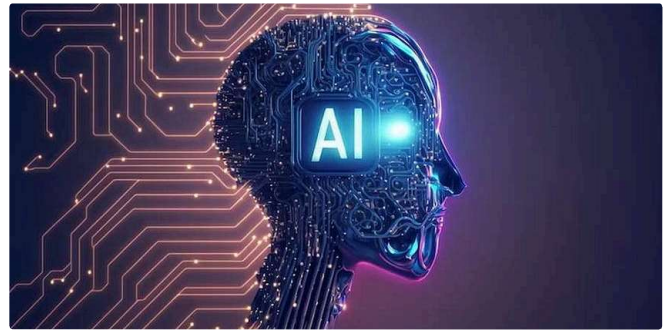
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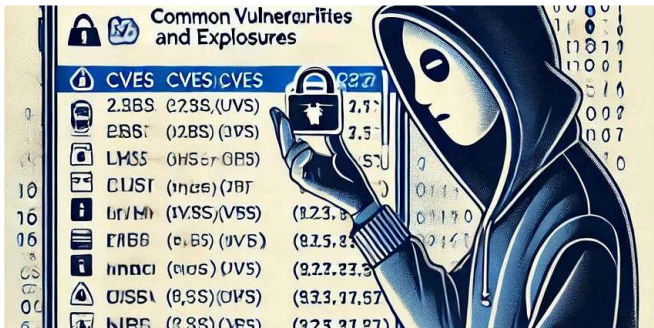


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