







Steps to be Followed

- 1. Create a HTML file with an *APPLET* tag which specifies the name of the applet class file, applet window size, and other relevant information.
- 2. Drop the *main* method.
 - In a Java application, the *main* method usually contains code to create a new frame object.
 - In an applet, however, creation of an applet object is done by the browser automatically.
 - The *main* method defines the frame size. For the applet, the size information is provided by the *WIDTH* and *HEIGHT* attributes of *APPLET* tag.



















Introduction

- When writing an applet, it may be necessary to override methods in the Applet class.
- What we need to know?
 - > The possible side effects of overriding.
 - >When the methods are called.
 - What code should be placed inside the methods.





- paint
 - > Called every time the window is damaged.
- update
 - This first fills an applet window with the default background color, and then calls paint().
- stop
 - Called when the browser moves to some other document.
 - Can be used to suspend time consuming activities (animation, threads, etc.) that need not be run when the applet is not visible.
 - > The activities can be restarted by calling *start()*.









- It is possible for a HTML page to have more than one applet.
 - These applets may interact with each other.
 - One applet may access the public variables and methods of other applets.
 - ≻How?
 - By calling getAppletContext() method to communicate with the browser, which returns an object of type AppletContext.





- The example considered is as follows:
 - There are two applets GUI.class and Compute.class, which have been assigned names first and second using the NAME attribute in HTML file.
 - The GUI.class applet reads in the amount in rupees, and the currency (dollar, say).
 - The Compute.class applet contains a method convert (x, y) to convert x rupees into currency type y.















































Quiz Questions on Lecture 29

- 1. Why do we need to sometime convert a Java application into an applet?
- 2. What is the purpose of the init() method?
- 3. What is the purpose of the start() method?
- 4. What is the purpose of the paint() method?
- 5. How can an applet A invoke a method of applet B, where both A and B are included in the same HTML page?
- 6. How do you change the displayed image on an applet?