

Applets in Java



What is Applet???

- Applets are small applications that are accessed on an Internet server, transported over the Internet, automatically installed, and run as part of a Web document.
- An Applet is a JAVA program that can be embedded into HTML page.

ADVANTAGES OF APPLET

- ❖ Cross platform and can run on Windows, MacOS and Linux platform.
- ❖ Applet can work all the version of JAVA plugin.
- ❖ Applets run in a sandbox.
- ❖ Applets are supported by most web browsers.
- ❖ Applets are cached in most web browsers.

DISADVANTAGES OF APPLLET

- ❖ JAVApugin is required to run Applet.
- ❖ Java Applet requires JMM.
- ❖ If Applet is not already cached in machine, it will be downloaded from internet and will take time.
- ❖ It is difficult to design and build good user interface in Applets compared to HTML technology.

LIFE CYCLE OF AN APPLET

- Applets life cycle includes the following methods :
- 1. Init()
- 2. Start()
- 3. Paint()
- 4. Stop()
- 5. Destroy()



- **init():** Is used to initialize the applet. It is invoked only once.
- **start():** Is invoked after the init() method or browser is maximized. It is used to start the applet.
- **paint(Graphics g):** is used to paint the applet. It provides graphics class object that can be used for drawing oval, rectangle, arc etc.
- **stop():** Is used to stop the applet. It is invoked when applet is stop or browser is minimized.
- **destroy():** Is used to destroy the applet. It is invoked only once.

TYPES OF APPLETS

- Applets are two types:

1 Simple applets

- simple applets can be created by extending applet class

2 Japplets

- japplets can be created by extending japplet class of javax.Swing.JApplet package

CREATING APPLETS

- Applets are created by extending the applet class:

```
// Save file as HelloWorld.java
```

```
import java.applet.Applet;
```

```
import java.awt.Graphics;
```

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

```
<applet code="HelloWorld" width=200 height=60>
```

```
</applet>
```

