



RAMA
UNIVERSITY

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FACULTY OF Engineering &
Technology

Java Applet

1. Applet is a java program that is embedded in the webpage to generate the dynamic content.
2. It runs inside the browser and works at client side.
3. Applets are tiny Java applications that can be accessed on an Internet server, transported over Internet, and can be automatically installed and run as apart of a web document.
4. For creating an Applet, a class must extends **java.applet.Applet** class.
5. An Applet class does not have any main() method.

Lifecycle of an Applet

1. Initialization **public void init()**: used to initialized the Applet. It is invoked only once..
2. Started **public void start()**: is invoked automatically after the init() method or the browser is maximized. It is used to start the Applet
3. painted.
4. stopped. **public void stop()**: this method is used to stop the Applet. It is invoked when Applet is stop or browser is minimized.
5. Destroyed **public void destroy()**: is used to destroy the Applet. It is also invoked only once in the life cycle.

public void paint(Graphics g): is used to paint the Applet. It provides Graphics class object that can be used for drawing oval, rectangle, arc etc.

Running an Applet

There are two ways to run an applet

1. By html file.
2. By appletViewer tool (for testing purpose).

demoapp.java

```
import java.applet.Applet;  
import java.awt.Graphics;  
public class demoapp extends Applet  
{  
  
    public void paint(Graphics g){  
        g.drawString("Hello",140,140);  
    }  
  
}
```

test.html

```
<html>
<body>
<applet code="demoapp.class" width="400" height="400">
</applet>
</body>
</html>
```

Explanation:

1. An applet demoapp.java will be created and it is embedded in an html file test.html by the html element <applet> and linking the class file of this applet using <applet> tag's code attribute
2. open the test.html in browser, applet will run

By using applet viewer:

To execute the applet by appletviewer tool, write in command prompt:

```
c:\>javac demoapp.java
```

```
c:\>appletviewer demoapp
```