Dt : 25/11/2023

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Installing Web Server(Tomcat Server):

step-1 : Download Tomcat9 and above using the following link

   Link=> https://tomcat.apache.org/download-90.cgi

step-2 : Install Tomcat Server

 while installation process,

   Select the type of install : Full

            (click on Next)

   Server Shutdown Port   : 8089

   HTTP/1.1 Connector Port   : 8081 or 8082 or 8083 or...

   User Name   : V

   Password   : nit

         (click on Next)

step-3 : start the Tomcat Server

=>To Start Server,click 'startup' or 'Tomcat9w' file from 'bin' folder

of Tomcat

C:\Tomcat 9.0\bin

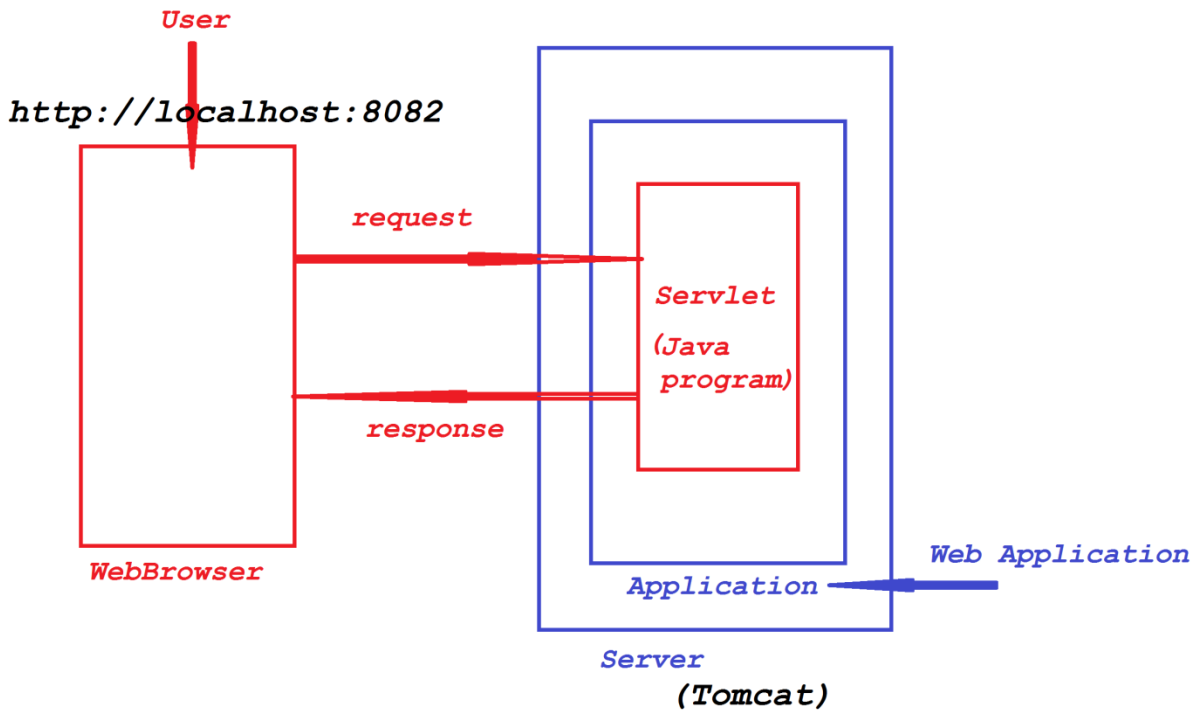*step-4 : Check Tomact server responding to WebBrowser or not,using the*

following url:

http://localhost:8082

step-5 : stop the Tomcat Server

=>To Stop Server,click 'shutdown' or 'Tomcat9w' file from 'bin' folder

of Tomcat

C:\Tomcat 9.0\bin

```
                    User
                     |
  http://localhost:8082
   _____              _____
  |          |             |                                    |
  |          |   request   |   _____    |
  |          |----------->|  |                             |   |
  |          |             |  |   Servlet                   |   |
  |          |             |  |   (Java                     |   |
  |          |<-----------|  |   program)                  |   |
  |          |   response  |  |                             |   |
  |          |             |  |_____|   |
  |_____|             |                                    |
                           |            Application  <---- Web Application
   WebBrowser              |_____|
                                   Server
                                     (Tomcat)
```

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Servlet API:

 =>'javax.servlet' package is known as Servlet-API

 =>'javax.servlet.Servlet' interface is a root of Servlet-Programming or

    Servlet-API.

 =>The following are some important methods of 'Servlet' interface:

    1.init()

    2.service()

    3.destroy()

    4.getServletInfo()

5.getServletConfig()

1.init():

   =>we use init() method to perform initialization process,which means

   making the programming components ready for service() method.

Method Signature:

public abstract void init(javax.servlet.ServletConfig)

                   throws javax.servlet.ServletException;

2.service():

   =>Using service() method we provide service to user,which means accepts

   the request and provides the response.

Method Signature:

public abstract void service(javax.servlet.ServletRequest,

   javax.servlet.ServletResponse) throws javax.servlet.ServletException,

                   java.io.IOException;

3.destroy():

   =>we use destroy() method to perform destroying process.

Method Signature:

public abstract void destroy();

Note:

=>init(),service() and destroy() methods are known as Life-cycle methods

and which are executed automatically in the same order.

4.getServletInfo():

=>getServletInfo() method is coded with servlet information and which

is not Life-cycle method.

Method Signature:

public abstract java.lang.String getServletInfo();

5.getServletConfig():

=>getServletConfig() method is used get Servlet Configuratiuon details

and which is alos not Life-cycle method.

Method Signature:

public abstract javax.servlet.ServletConfig getServletConfig();

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