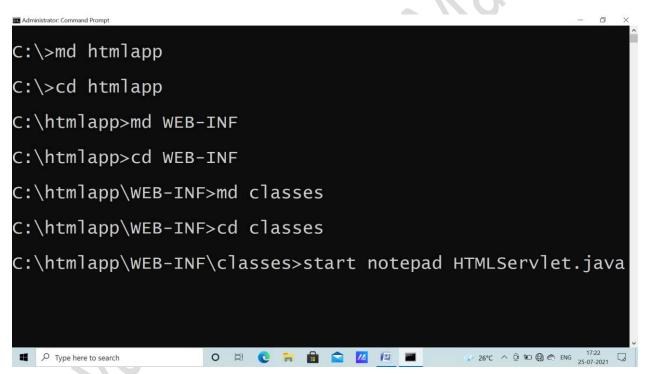
# **SERVLETS PART-2**

#### **Steps to develop web application:**

- 1) Create a web application folder structure.
- 2) Create and compile web application source code(Servlet program).
- 3) Write deployment descriptor(web.xml).
- 4) Create a WAR(Web ARchive) file.
- 5) Start the server.
- 6) Deploy a war file on server.

#### 1) Create a web application folder structure:



# 2) Create and compile web application source code(Servlet Program):

#### HTMLServlet.java:

import java.io.\*;
import javax.servlet.\*;

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```
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public class HTMLServlet extends GenericServlet
     public void service(ServletRequest req, ServletResponse res)
           try{
           PrintWriter pw=res.getWriter();
           pw.println("<html><body bgcolor=yellow text=blue>");
           pw.println("<h1>Welcome.....</h1>");
           pw.println("</body></html>");
           }catch(Exception e)
                System.err.println(e);
C:\htmlapp\WEB-INF\classes>javac HTMLServlet.java
C:\htmlapp\WEB-INF\classes>cd..
C:\htmlapp\WEB-INF>start notepad web.xml_
 Type here to search
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```

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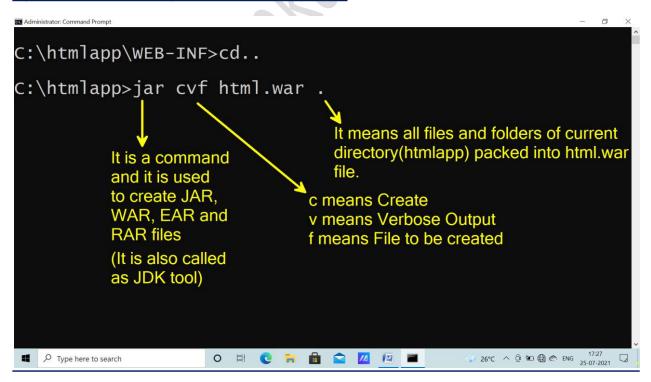
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## 3) Write deployment descriptor(web.xml):

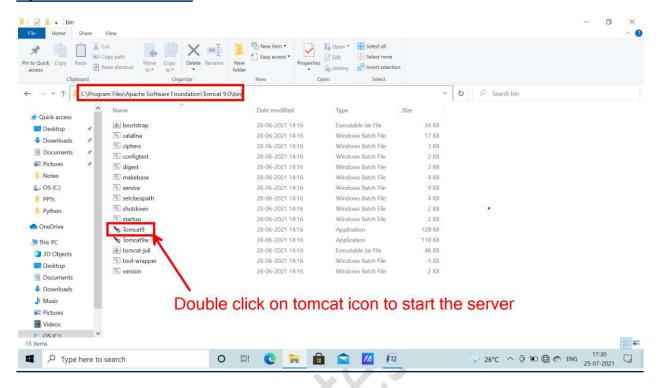
#### web.xml:

- <web-app>
- <servlet>
- <servlet-name>html</servlet-name>
- <servlet-class>HTMLServlet</servlet-class>
- </servlet>
- <servlet-mapping>
- <servlet-name>html</servlet-name>
- <url-pattern>/html</url-pattern>
- </servlet-mapping>
- </web-app>

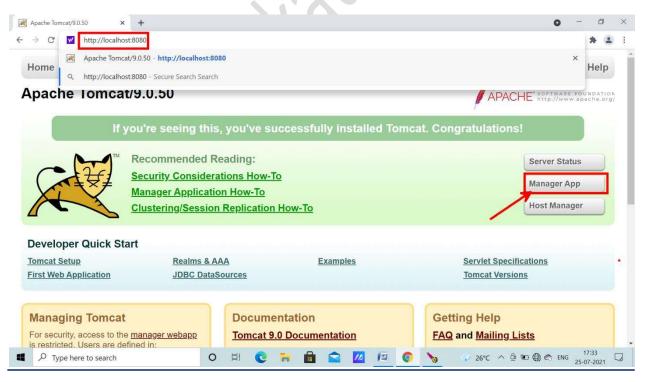
## 4) Create a WAR(Web ARchive) file:



#### 5) Start the server:

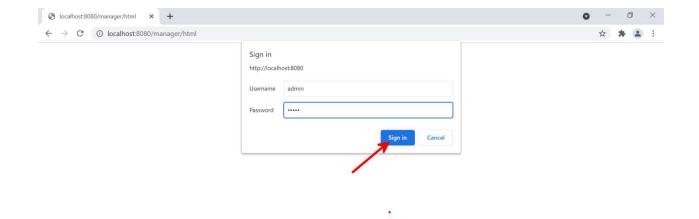


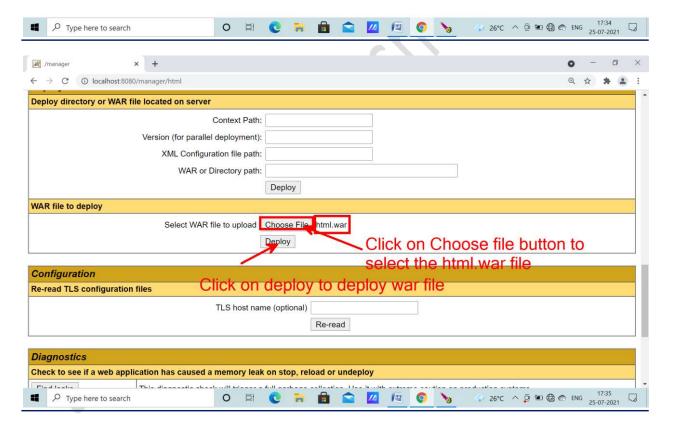
## 6) Deploy a war file on server:



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## TimeServlet.java:

import java.io.\*;

import java.util.\*;

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<servlet-mapping>

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```
<servlet-name>time</servlet-name>
<url-pattern>/time</url-pattern>
</servlet-mapping>
</web-app>
ImageServlet.java:
import java.io.*;
import javax.servlet.*;
public class ImageServlet extends GenericServlet
      public void service(ServletRequest req, ServletResponse res)
            try{
            FileInputStream fis=new FileInputStream("C:/flowers.jpg"); //It opens
a file for reading
            int n=fis.available(); //It returns file size
            byte[] b=new byte[n]; //It allocates the memory in a RAM according
to file size
            fis.read(b); //It will read data from file.
            ServletOutputStream sos=res.getOutputStream(); //It creates a
stream from server to browser
            sos.write(b); //It will send the image to browser
            }catch(Exception e)
                   System.err.println(e);
```

```
}
web.xml:
<web-app>
<servlet>
<servlet-name>image</servlet-name>
<servlet-class>ImageServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>image</servlet-name>
<url-pattern>/image</url-pattern>
</servlet-mapping>
</web-app>
TableServlet.java:
import java.io.*;
import javax.servlet.*;
public class TableServlet extends GenericServlet
{
     public void service(ServletRequest req, ServletResponse res)
           try{
            PrintWriter pw=res.getWriter();
           pw.println("<html><body bgcolor=green text=yellow>");
           pw.println("");
```

```
for(int i=1;i<=100;i++)
                pw.println("");
                pw.println("> 5 ");
                pw.println(" x ");
                pw.println(""+i+" ");
                pw.println(" = ");
                pw.println(""+(5*i)+" ");
                pw.println("");
          pw.println("</body></html>");
          }catch(Exception e)
                System.err.println(e);
     }
web.xml:
<web-app>
<servlet>
<servlet-name>table/servlet-name>
<servlet-class>TableServlet</servlet-class>
</servlet>
<servlet-mapping>
```

```
<servlet-name>table</servlet-name>
<url-pattern>/table</url-pattern>
</servlet-mapping>
</web-app>
CounterServlet.java:
import java.io.*;
import javax.servlet.*;
public class CounterServlet extends GenericServlet
{
      int count=0;
      public void service(ServletRequest req, ServletResponse res)
            try{
            PrintWriter pw=res.getWriter();
            pw.println("<html><body bgcolor=green text=yellow><h1>");
            pw.println("This page has been accessed "+(++count)+" times");
            pw.println("</h1></body></html>");
            }catch(Exception e)
                  System.err.println(e);
}
```

#### web.xml:

</web-app>

```
<web-app>
<servlet>
<servlet-name>count</servlet-name>
<servlet-class>CounterServlet</servlet-class>
</servlet>
<servlet-mapping>
<servlet-name>count</servlet-name>
<url-pattern>/count</url-pattern>
</servlet-mapping>
```

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