SERVLETS PART-4

Servlet Program to Display System Time:

TimeServlet.java:

```java
import java.io.*;

import java.util.*;

import javax.servlet.*;

public class TimeServlet extends GenericServlet

{

    public void service(ServletRequest req, ServletResponse res)

    {

        try{

        Date d=new Date();

        PrintWriter pw=res.getWriter();

        pw.println("<html><body bgcolor=red text=yellow><h1>");

pw.println(d.getHours()+":"+d.getMinutes()+":"+d.getSeconds());

        pw.println("</h1></body></html>");

        }catch(Exception e)

        {

                System.err.println(e);

        }
```

```
        }

}
```

web.xml:

```
<web-app>

<servlet>

<servlet-name>time</servlet-name>

<servlet-class>TimeServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>time</servlet-name>

<url-pattern>/time</url-pattern>

</servlet-mapping>

</web-app>
```

Servlet Program to Display Image:

ImageServlet.java:

```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>
```

Servlet Program to Display Multiplication Table:

TableServlet.java:

```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("<table border=10>");

                for(int i=1;i<=100;i++)

                {

                        pw.println("<tr>");

                        pw.println("<td> 5 </td>");

                        pw.println("<td> x </td>");

                        pw.println("<td> "+i+" </td>");

                        pw.println("<td> = </td>");
```

```
                        pw.println("<td> "+(5*i)+" </td>");

                        pw.println("</tr>");

                }
                pw.println("</table></body></html>");
                }catch(Exception e)
                {
                        System.err.println(e);
                }
        }
}
```

web.xml:

```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>
```

Servlet Program to count the no. of views:

CounterServlet.java:

```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:

```xml
<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>

</web-app>
```

By

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