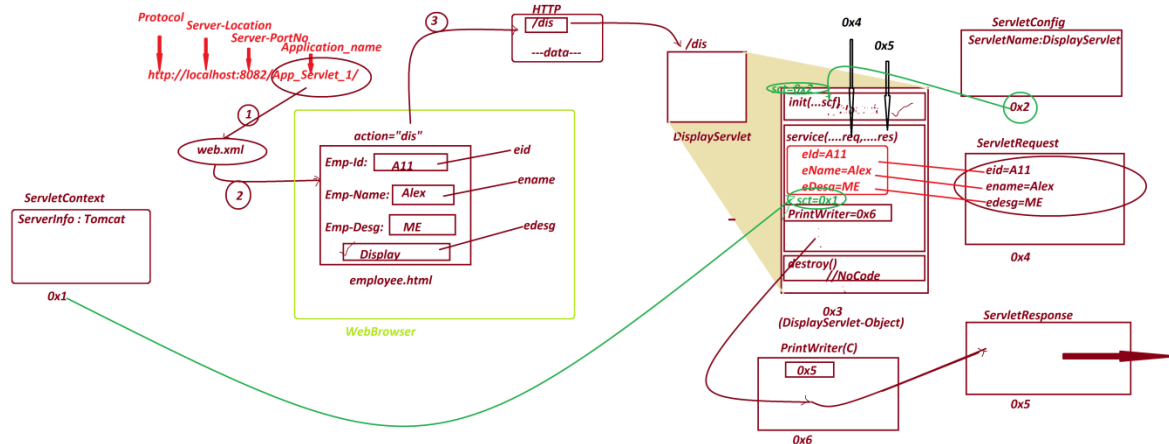*Dt : 21/10/202(Day-22)*

Execution flow of above application:

http://localhost:8082/App_Servlet_1/

ServletContext:

 =>'ServletContext' is an interface from jakarta.servlet package and which is

   instantiated automatically when WebApplication(Project) is deployed into

   Server.

 =>This ServletContext-object is loaded with Server-Information.

 =>we use getServletContext()-method from 'ServletRequest' to access the reference

  of ServletContext-Object

 Method Signature of getServletContext();

 public abstract jakarta.servlet.ServletContext getServletContext();

 syntax:

 ServletContext sct = req.getServletContext();

ServletConfig:

=>'ServletConfig' is an interface from jakarta.servlet package and which is

instantiated automatically when servlet-program loaded for execution.

=>ServletConfig-Object is loaded with Servlet_name

ServletRequest:

=>'ServletRequest' is an interface from jakara.servlet package and which is

instantiated Automatically while service()-method execution.

=>ServletRequest-Object is loaded with HTML form data.

ServletResponse:

=>'ServletResponse' is an inerface from jakarta.servlet package and which is

instantiated automaticallu while service()-method execution.

=>'ServletResponse-Object' is loaded with the data which we are sending as

respose/output.

faq:

define getWriter()-method?

=>getWriter()-method is from 'ServletResponse' and which is used to create object

for 'java.io.PrintWriter' class

=>This 'PrintWriter' object will hold thr reference of ServletResponse Object.

(HAS-A relation)

Method Signaturre of getWriter():

public abstract java.io.PrintWriter getWriter() throws java.io.IOException;

syntax:

PrintWriter pw = res.getWriter();

faq:

define setContentType() method?

  =>setContentType()-method will specify the type of data we are sending as response.

  =>This setContentType()-method is from 'ServletResponse'

Method Signature:

public abstract void setContentType(java.lang.String);

syntax:

res.setContentType("text/html");

faq:

define getParameter()-method?

  =>getParameter()-method is from 'ServletRequest' and which is used to get parameter

   values from ServletRequest Object.

  Method Signature:

  public abstract java.lang.String getParameter(java.lang.String);

  syntax:

  String var = req.getParameter("para-name");

  Ex:

  String eId = req.getParameter("eid");

  String eName = req.getParameter("ename");

  String eDesg = req.getParameter("edesg");

Program:DisplayServlet.java(Modified Code)

```java
package test;

import java.io.*;

import jakarta.servlet.*;

import jakarta.servlet.annotation.*;

@WebServlet("/dis")

public class DisplayServlet implements Servlet

{

        public ServletConfig scf = null;//Instance Variable(Object Variable)

        public void init(ServletConfig scf) throws ServletException

  {

         this.scf=scf;

  }

        public void service(ServletRequest req,ServletResponse res) throws

                        ServletException,IOException

    {

                String eId = req.getParameter("eid");

                String eName = req.getParameter("ename");

                String eDesg = req.getParameter("edesg");

                ServletContext sct = req.getServletContext();

            PrintWriter pw = res.getWriter();

            res.setContentType("text/html");

            pw.println("=======EmployeeDetails======");

            pw.println("<br>Emp-Id:"+eId);

            pw.println("<br>Emp-Name:"+eName);

            pw.println("<br>Emp-Desg:"+eDesg);
```

```
        pw.println("<br>======ServletContext======");

        pw.println("<br>Server-Info:"+sct.getServerInfo());

        pw.println("<br>======ServletConfig======");

        pw.println("<br>Servlet-name:"+scf.getServletName());;

    }

    public void destroy()

    {

            //NoCode

    }

     public String getServletInfo()

    {

            return "Servlet displaying Employee details";

    }

    public ServletConfig getServletConfig()

    {

            return this.getServletConfig();

    }

}
```

o/p:

======EmployeeDetails======

Emp-Id:A11

Emp-Name:Alex

Emp-Desg:ME

======ServletContext======

Server-Info:Apache Tomcat/10.1.20

======ServletConfig======

Servlet-name:test.DisplayServlet

===

Assignment-1:

Construct Servlet Application to read and display Product details.

  (code,name,price,qty)

Assignment-2:

Construct Servlet Application to read and display UserDetails.

  (name,city,mid,phno)

===