**12.Attributes in Servlet:**

* An **attribute in servlet** is an object that can be set, get or removed from one of the following scopes:

1. request scope
2. session scope
3. application scope

* The servlet programmer can pass informations from one servlet to another using attributes.
* It is just like passing object from one class to another so that we can reuse the same object again and again.

**Attribute specific methods of ServletRequest, HttpSession and ServletContext interface:**

1. **public void setAttribute(String name,Object object):**sets the given object in the application scope.
2. **public Object getAttribute(String name):**Returns the attribute for the specified name.
3. **public Enumeration getInitParameterNames():**Returns the names of the context's initialization parameters as an Enumeration of String objects.
4. **public void removeAttribute(String name):**Removes the attribute with the given name from the servlet context.

### Example:

### We are setting the attribute in the application scope and getting that value from another servlet.

### DemoServlet1.java:

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**public** **class** DemoServlet1 **extends** HttpServlet{

**public** **void** doGet(HttpServletRequest req,HttpServletResponse

res)

{

**try**{

res.setContentType("text/html");

PrintWriter out=res.getWriter();

ServletContext context=getServletContext();

context.setAttribute("company","IBM");

out.println("Welcome to first servlet");

out.println("<a href='servlet2'>visit</a>");

out.close();

}**catch**(Exception e){out.println(e);}

}

}

**DemoServlet2.java:**

**import** java.io.\*;

**import** javax.servlet.\*;

**import** javax.servlet.http.\*;

**public** **class** DemoServlet2 **extends** HttpServlet{

**public** **void** doGet(HttpServletRequest req,HttpServletResponse

res)

{

**try**{

res.setContentType("text/html");

PrintWriter out=res.getWriter();

ServletContext context=getServletContext();

String n=(String)context.getAttribute("company");

out.println("Welcome to "+n);

out.close();

}**catch**(Exception e){out.println(e);}

}

}

### web.xml:

<web-app>

<servlet>

<servlet-name>s1</servlet-name>

<servlet-**class**>DemoServlet1</servlet-**class**>

</servlet>

<servlet-mapping>

<servlet-name>s1</servlet-name>

<url-pattern>/servlet1</url-pattern>

</servlet-mapping>

<servlet>

<servlet-name>s2</servlet-name>

<servlet-**class**>DemoServlet2</servlet-**class**>

</servlet>

<servlet-mapping>

<servlet-name>s2</servlet-name>

<url-pattern>/servlet2</url-pattern>

</servlet-mapping>

</web-app>