

# JSP Implicit Objects

There are **9 jsp implicit objects**. These objects are *created by the web container* that are available to all the jsp pages.

The available implicit objects are out, request, config, session, application etc.

A list of the 9 implicit objects is given below:

Object	Type
out	JspWriter
request	HttpServletRequest
response	HttpServletResponse
config	ServletConfig
application	ServletContext
session	HttpSession
pageContext	PageContext
page	Object
exception	Throwable

## 1) JSP out implicit object

For writing any data to the buffer, JSP provides an implicit object named out. It is the object of JspWriter. In case of servlet you need to write:

```
PrintWriter out=response.getWriter();
```

But in JSP, you don't need to write this code.

## Example of out implicit object

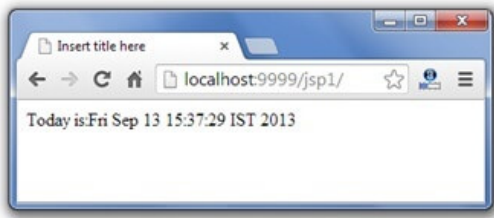
In this example we are simply displaying date and time.

index.jsp

```
<html>
<body>
<% out.print("Today is:"+java.util.Calendar.getInstance().getTime()); %>
</body>
```

```
</html>
```

## Output



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## Upcoming topics in JSP implicit Objects

**Example of Request implicit Object**

**Example of Response implicit Object**

**Example of config implicit object**

**Example of application implicit object**

**Example of session implicit object**

**Example of pageContext implicit object**

**Example of page implicit object**

**Example of exception implicit object**

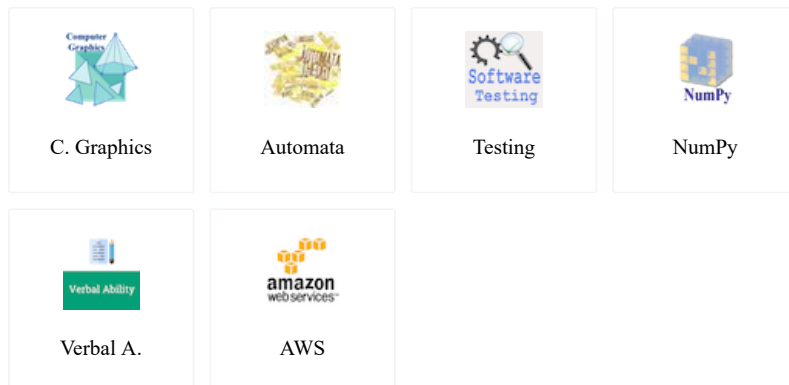
<<prev

next>>

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## JSP request implicit object

The **JSP request** is an implicit object of type `HttpServletRequest` i.e. created for each jsp request by the web container. It can be used to get request information such as parameter, header information, remote address, server name, server port, content type, character encoding etc.

It can also be used to set, get and remove attributes from the jsp request scope.

Let's see the simple example of request implicit object where we are printing the name of the user with welcome message.

### Example of JSP request implicit object

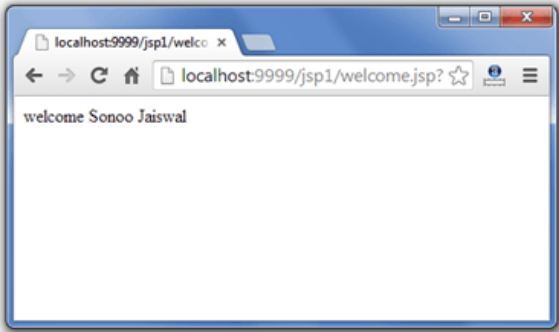
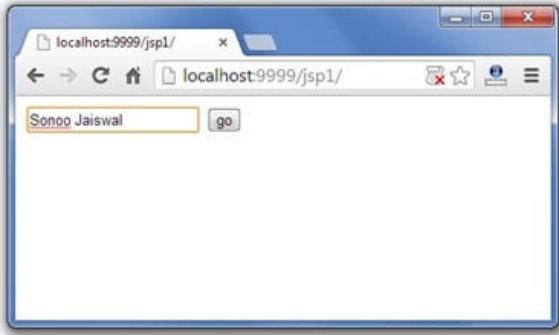
#### index.html

```
<form action="welcome.jsp">
<input type="text" name="uname">
<input type="submit" value="go"><br/>
</form>
```

#### welcome.jsp

```
<%
String name=request.getParameter("uname");
out.print("welcome "+name);
%>
```

#### Output



## Other topics in JSP implicit Objects

Example of out implicit Object

Example of Response implicit Object

Example of config implicit object

Example of application implicit object

Example of session implicit object

Example of pageContext implicit object

Example of page implicit object

Example of exception implicit object

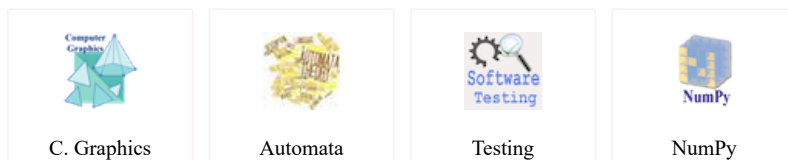
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next>>

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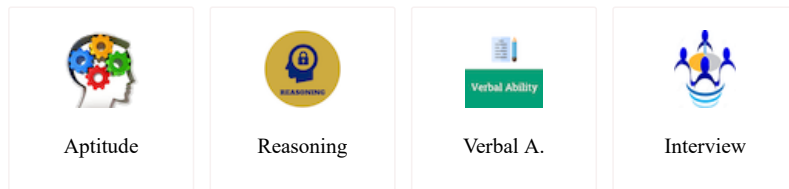


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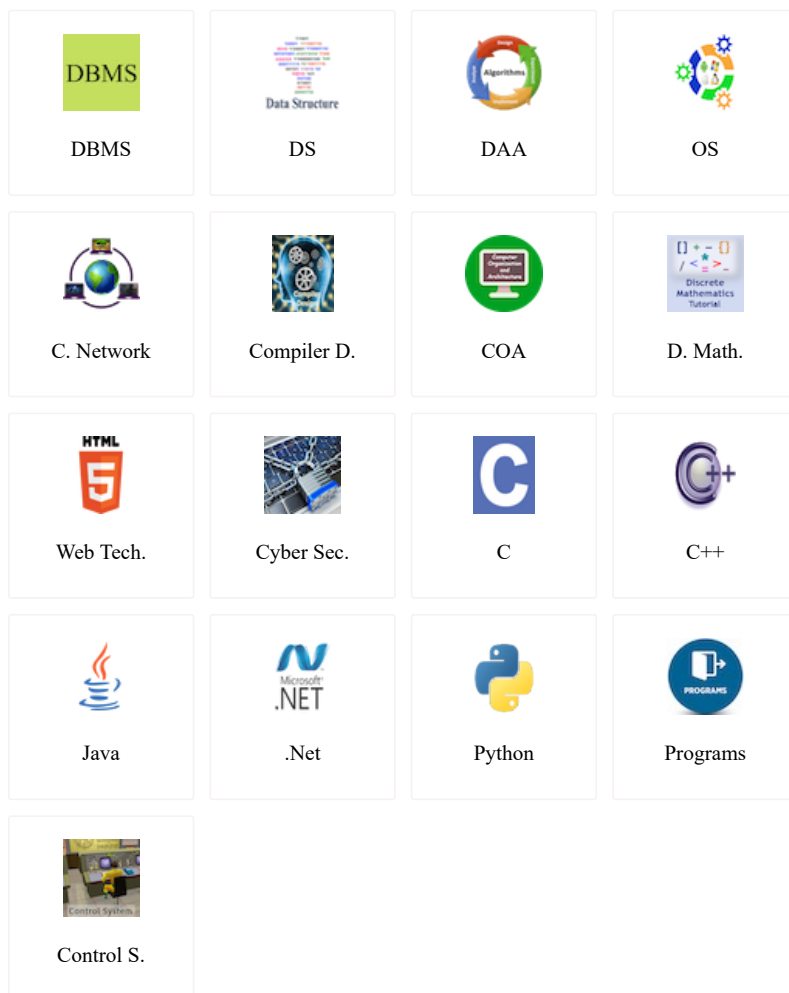




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### 3) JSP response implicit object

In JSP, response is an implicit object of type `HttpServletResponse`. The instance of `HttpServletResponse` is created by the web container for each jsp request.

It can be used to add or manipulate response such as redirect response to another resource, send error etc.

Let's see the example of response implicit object where we are redirecting the response to the Google.

#### Example of response implicit object

##### index.html

```
<form action="welcome.jsp">
<input type="text" name="uname">
<input type="submit" value="go"><br/>
</form>
```

##### welcome.jsp

```
<%
response.sendRedirect("http://www.google.com");
%>
```

#### Output



#### Other topics in JSP implicit Objects

Example of outt implicit Object

Example of Request implicit Object

Example of config implicit object





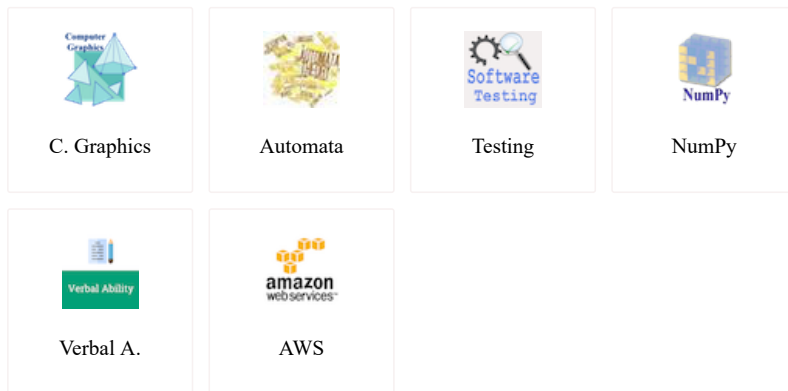
Example of application implicit object  
Example of session implicit object  
Example of pageContext implicit object  
Example of page implicit object  
Example of exception implicit object

<<prev  
next>>

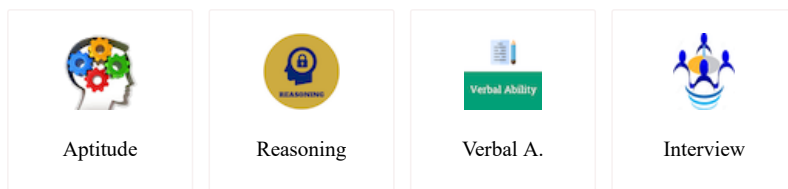
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**Originals** hatke hone chahiye,  
same toh good morning messages bhi hote hain.



## 4) JSP config implicit object

In JSP, config is an implicit object of type *ServletConfig*. This object can be used to get initialization parameter for a particular JSP page. The config object is created by the web container for each jsp page.

Generally, it is used to get initialization parameter from the web.xml file.

### Example of config implicit object:

#### index.html

```
<form action="welcome">
<input type="text" name="uname">
<input type="submit" value="go"><br/>
</form>
```

#### web.xml file

```
<web-app>

<servlet>
<servlet-name>sonoojaiswal</servlet-name>
<jsp-file>/welcome.jsp</jsp-file>

<init-param>
<param-name>dname</param-name>
<param-value>sun.jdbc.odbc.JdbcOdbcDriver</param-value>
</init-param>

</servlet>

<servlet-mapping>
<servlet-name>sonoojaiswal</servlet-name>
<url-pattern>/welcome</url-pattern>
</servlet-mapping>

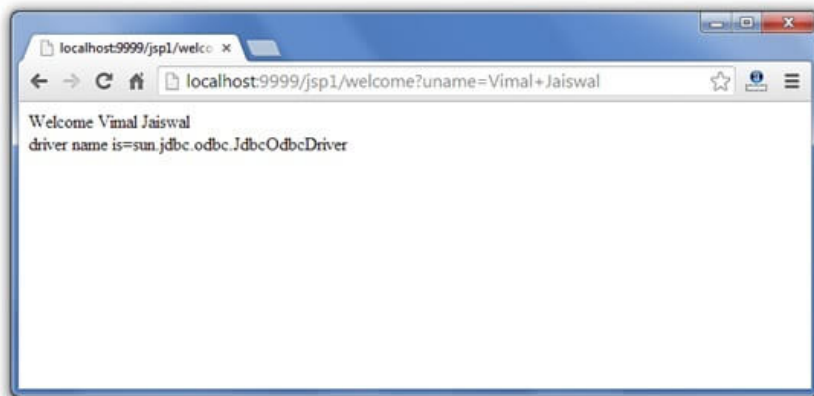
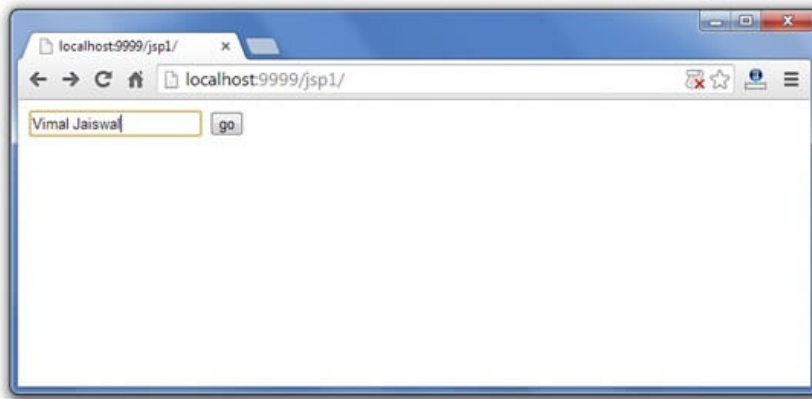
</web-app>
```

#### welcome.jsp

```
<%
out.print("Welcome "+request.getParameter("uname"));

String driver=config.getInitParameter("dname");
out.print("driver name is="+driver);
%>
```

## Output



## Other topics in JSP implicit Objects

Example of out implicit Object

Example of request implicit object

Example of Response implicit Object

Example of application implicit object

Example of session implicit object

Example of pageContext implicit object

Example of page implicit object

Example of exception implicit object

<<prev

next>>

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**Drama non-stop** hona chahiye,

20 overs ke baad toh **cricket match** bhi khatam ho jata hai.



## 5) JSP application implicit object

In JSP, application is an implicit object of type *ServletContext*.

The instance of *ServletContext* is created only once by the web container when application or project is deployed on the server.

This object can be used to get initialization parameter from configuration file (web.xml). It can also be used to get, set or remove attribute from the application scope.

This initialization parameter can be used by all jsp pages.

### Example of application implicit object:

#### index.html

```
<form action="welcome">
<input type="text" name="uname">
<input type="submit" value="go"><br/>
</form>
```

#### web.xml file

```
<web-app>

<servlet>
<servlet-name>sonoojaiswal</servlet-name>
<jsp-file>/welcome.jsp</jsp-file>
</servlet>

<servlet-mapping>
<servlet-name>sonoojaiswal</servlet-name>
<url-pattern>/welcome</url-pattern>
</servlet-mapping>

<context-param>
<param-name>dname</param-name>
<param-value>sun.jdbc.odbc.JdbcOdbcDriver</param-value>
</context-param>

</web-app>
```

#### welcome.jsp

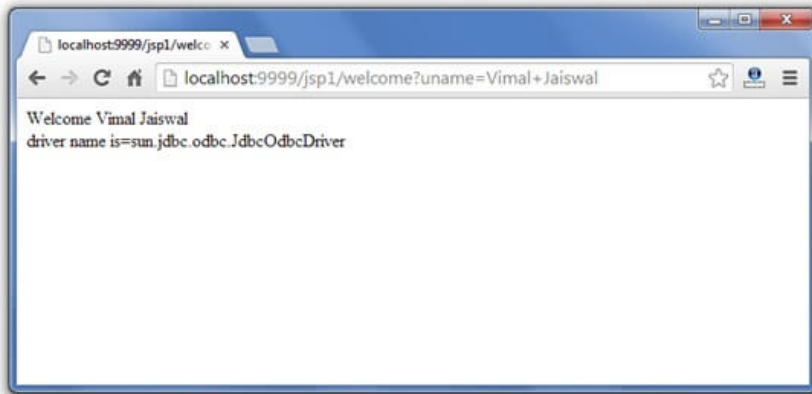
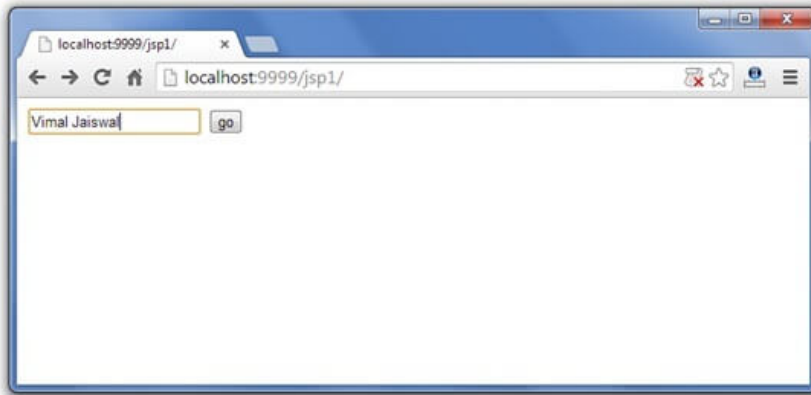
```
<%

out.print("Welcome "+request.getParameter("uname"));

String driver=application.getInitParameter("dname");
```

```
out.print("driver name is="+driver);  
  
%>
```

## Output



## Other topics in JSP implicit Objects

Example of out implicit Object

Example of request implicit object

Example of Response implicit Object

Example of config implicit object

Example of session implicit object

Example of pageContext implicit object

Example of page implicit object

Example of exception implicit object

← prev

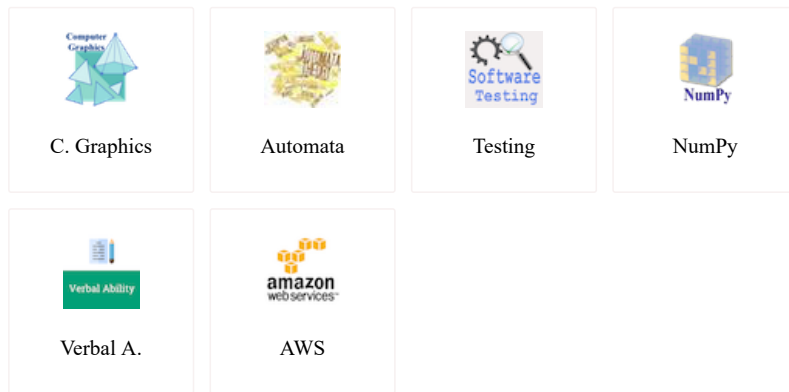
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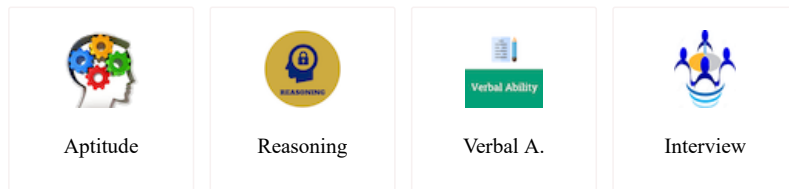




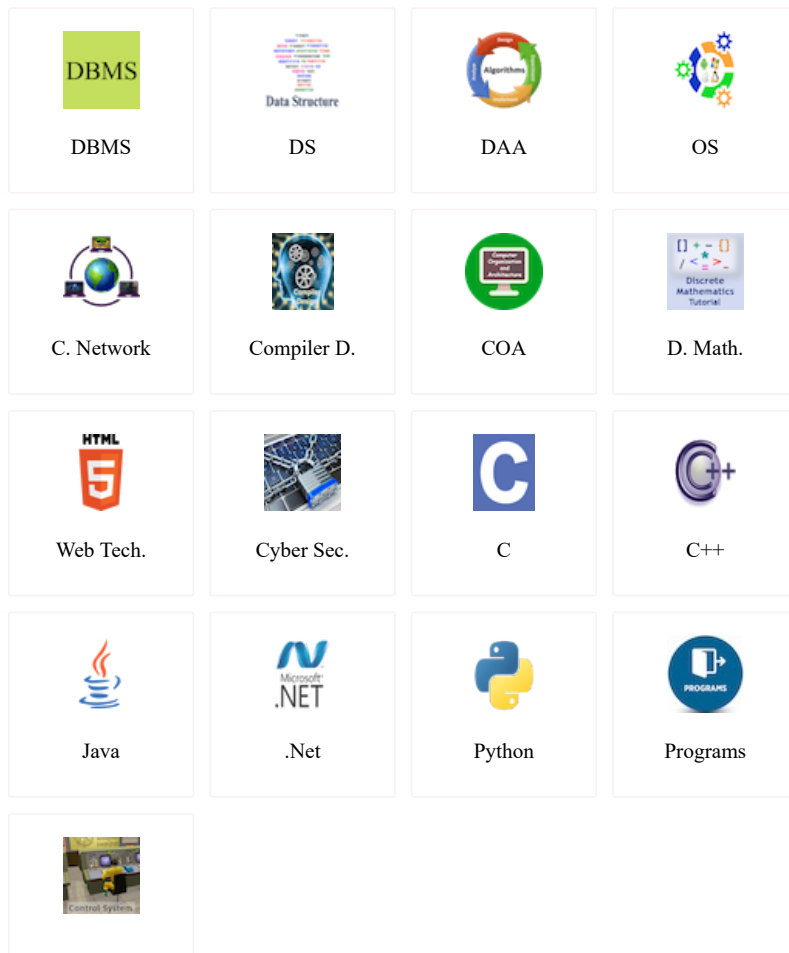
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## 6) session implicit object

In JSP, session is an implicit object of type HttpSession. The Java developer can use this object to set, get or remove attribute or to get session information.

### Example of session implicit object

#### index.html

```
<html>
<body>
<form action="welcome.jsp">
<input type="text" name="uname">
<input type="submit" value="go"><br/>
</form>
</body>
</html>
```

#### welcome.jsp

```
<html>
<body>
<%

String name=request.getParameter("uname");
out.print("Welcome "+name);

session.setAttribute("user",name);

<a href="second.jsp">second jsp page</a>

%>
</body>
</html>
```

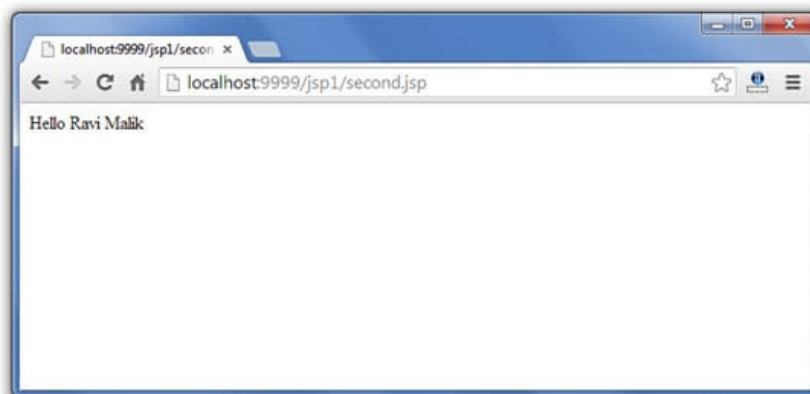
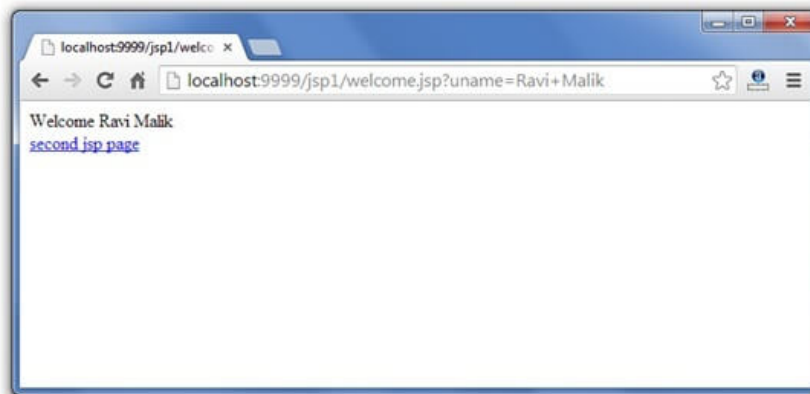
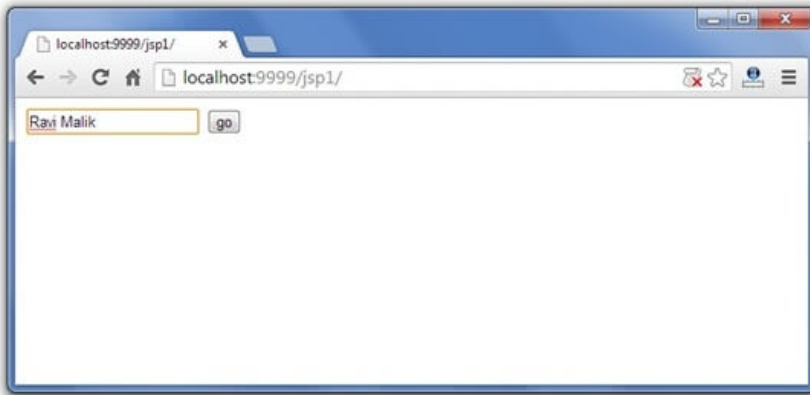
#### second.jsp

```
<html>
<body>
<%

String name=(String)session.getAttribute("user");
out.print("Hello "+name);
```

```
%>  
</body>  
</html>
```

## Output



## Other topics in JSP implicit Objects

Example of out implicit Object

Example of request implicit object

Example of Response implicit Object

Example of config implicit object

Example of application implicit object

Example of pageContext implicit object

Example of page implicit object

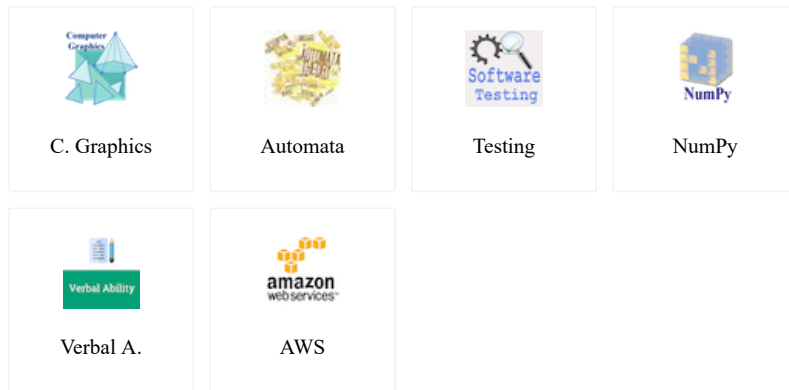
Example of exception implicit object

<<prev  
next>>

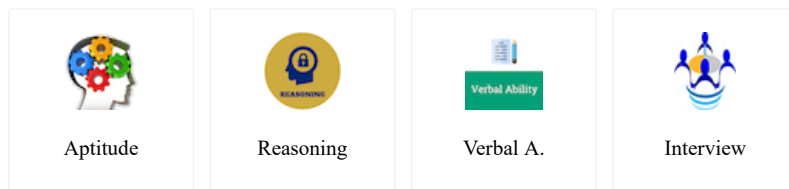
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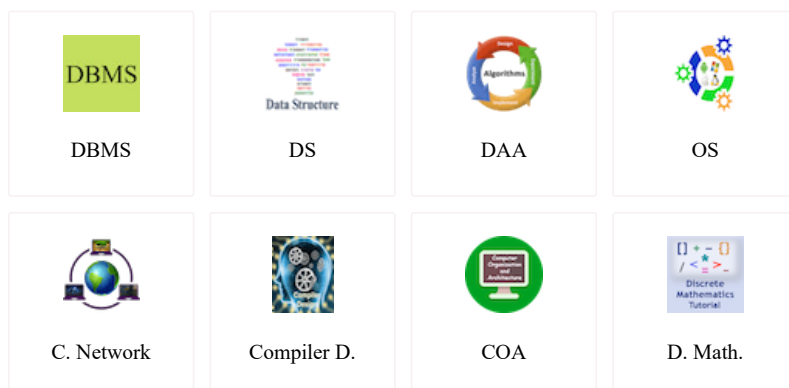
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## 7) pageContext implicit object

In JSP, pageContext is an implicit object of type PageContext class. The pageContext object can be used to set, get or remove attribute from one of the following scopes:

- page
- request
- session
- application

In JSP, page scope is the default scope.

### Example of pageContext implicit object

#### index.html

```
<html>
<body>
<form action="welcome.jsp">
<input type="text" name="uname">
<input type="submit" value="go"><br/>
</form>
</body>
</html>
```

#### welcome.jsp

```
<html>
<body>
<%

String name=request.getParameter("uname");
out.print("Welcome "+name);

pageContext.setAttribute("user",name,PageContext.SESSION_SCOPE);

<a href="second.jsp">second jsp page</a>

%>
</body>
</html>
```

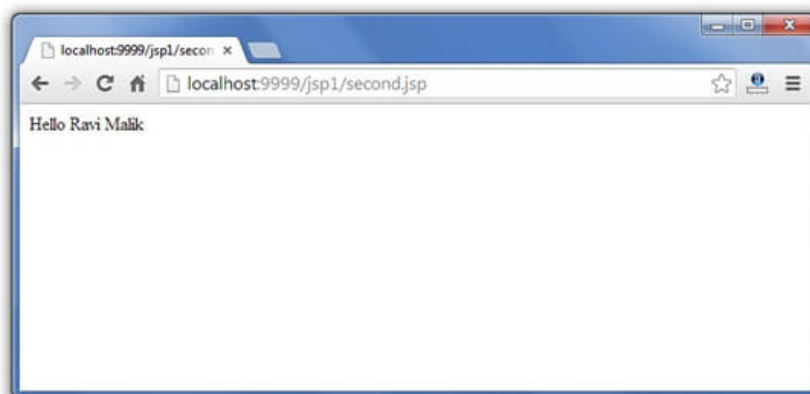
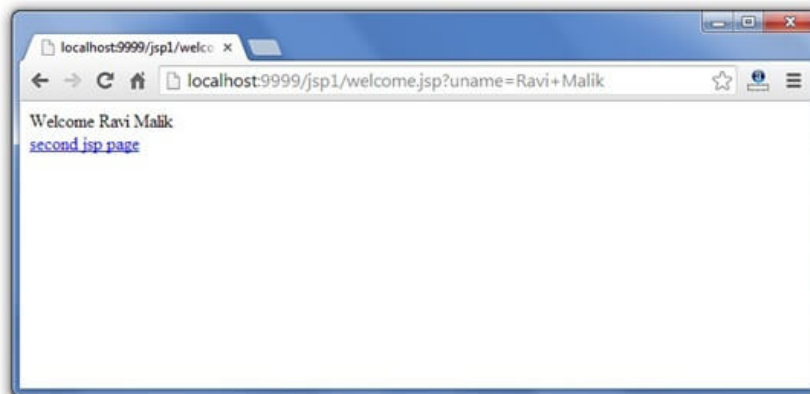
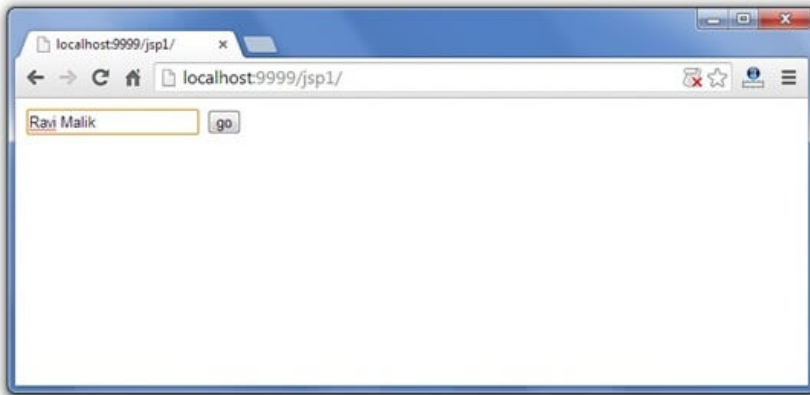
#### second.jsp

```
<html>
<body>
```



```
<%  
  
String name=(String)pageContext.getAttribute("user",PageContext.SESSION_SCOPE);  
out.print("Hello "+name);  
  
%>  
</body>  
</html>
```

## Output



Other topics in JSP implicit Objects





Example of out implicit Object

Example of request implicit object

Example of Response implicit Object

Example of config implicit object

Example of application implicit object

Example of session implicit object

Example of page implicit object

Example of exception implicit object

<<prev

next>>

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## 8) page implicit object:

In JSP, page is an implicit object of type Object class. This object is assigned to the reference of auto generated servlet class. It is written as:

```
Object page=this;
```

For using this object it must be cast to Servlet type. For example:

```
<% (HttpServletRequest)page.log("message"); %>
```

Since, it is of type Object it is less used because you can use this object directly in jsp. For example:

```
<% this.log("message"); %>
```

<<prev  
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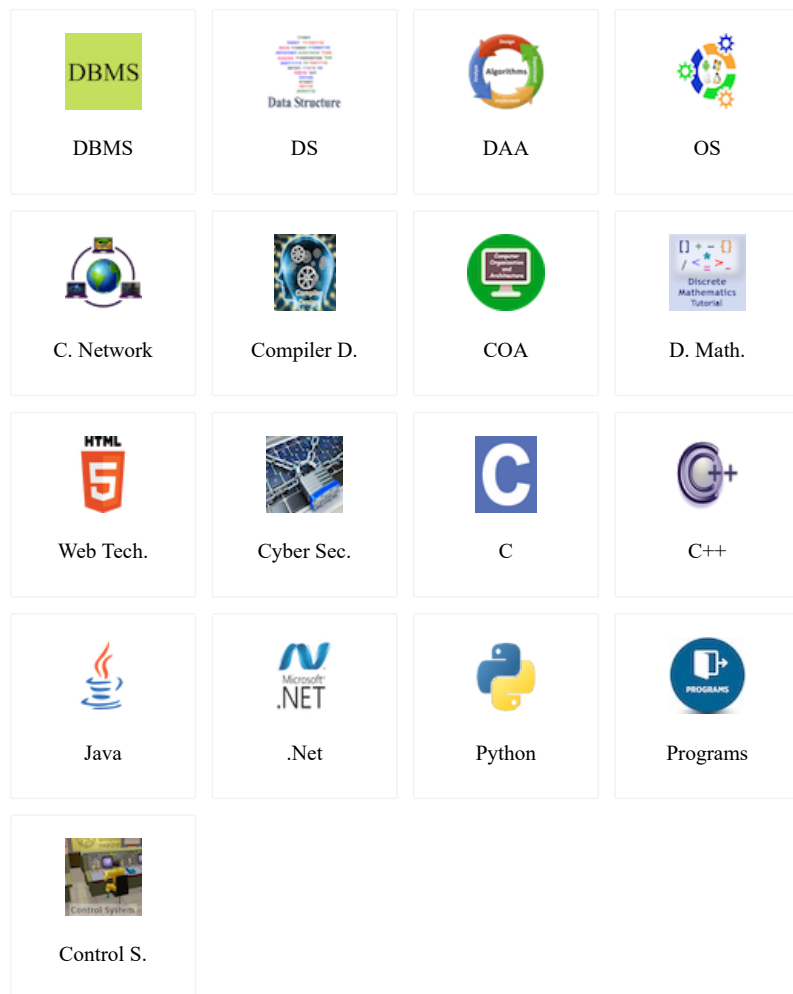


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## 9) exception implicit object

In JSP, exception is an implicit object of type `java.lang.Throwable` class. This object can be used to print the exception. But it can only be used in error pages. It is better to learn it after page directive. Let's see a simple example:

### Example of exception implicit object:

#### error.jsp

```
<%@ page isErrorPage="true" %>
<html>
<body>

Sorry following exception occurred: <%= exception %>

</body>
</html>
```

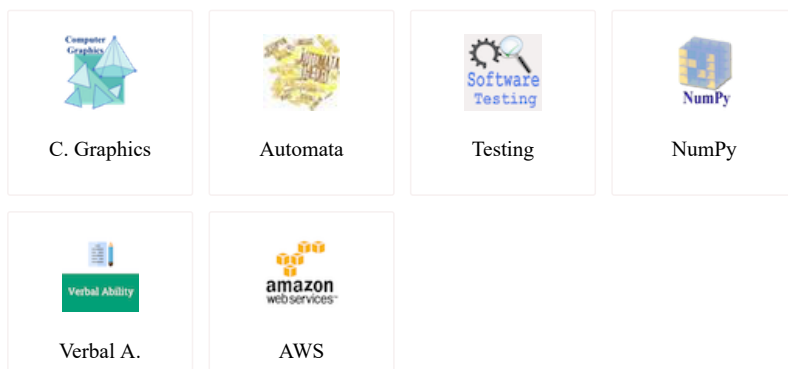
To get the full example, click [here](#) full example of exception handling in jsp. But, it will be better to learn it after the JSP Directives.

<<prev  
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