$$$$$$$$$$$$$$$$$$$$$$$$$$$$ Βοήθημα Εξέτασης ΤΕΔ $$

Προγραμματιστικές Διασυνδέσεις Servlet (APIs)

Μέθοδοι Κλάσης HttpServlet
```
void doPost(HttpServletRequest req, HttpServletResponse resp) throws ServletException, java.io.IOException
void doGet(HttpServletRequest req, HttpServletResponse resp) throws ServletException,  java.io.IOException
void service(HttpServletRequest req, HttpServletResponse resp) throws ServletException, java.io.IOException
public void destroy()
public void init() throws ServletException
public java.lang.String getInitParameter(java.lang.String name)
public ServletConfig getServletConfig()
public ServletContext getServletContext()
public java.lang.String getServletInfo()
```

Μέθοδοι Διασύνδεσης (Interface) HttpServletRequest
```
public java.lang.String getContextPath()
public HttpSession getSession(boolean create)
public HttpSession getSession()

public java.lang.Object getAttribute(java.lang.String name)
public java.util.Enumeration<java.lang.String> getAttributeNames()
public java.lang.String getCharacterEncoding()
public ServletInputStream getInputStream()throws java.io.IOException
public java.lang.String getParameter(java.lang.String name)
public java.util.Enumeration<java.lang.String> getParameterNames()
public java.lang.String[] getParameterValues(java.lang.String name)
public void setAttribute(java.lang.String name, java.lang.Object o)
public void removeAttribute(java.lang.String name)
public RequestDispatcher getRequestDispatcher(java.lang.String path)
```

Μέθοδοι Διασύνδεσης (Interface) HttpServletResponse
```
public java.lang.String encodeURL(java.lang.String url)
public void sendRedirect(java.lang.String location) throws java.io.IOException
public java.io.PrintWriter getWriter() throws java.io.IOException
public void setCharacterEncoding(java.lang.String charset)
public void setContentType(java.lang.String type)
```

Μέθοδοι Διασύνδεσης (Interface) HttpSession
```
public java.lang.Object getAttribute(java.lang.String name)
public java.util.Enumeration<java.lang.String>  getAttributeNames()
public void setAttribute(java.lang.String name, java.lang.Object value)
public void removeAttribute(java.lang.String name)
public void invalidate()
```

Μέθοδοι Διασύνδεσης (Interface) RequestDispatcher
```
public void forward(ServletRequest request, ServletResponse response) throws ServletException,
      java.io.IOException
```

Μέθοδοι Διασύνδεσης (Interface) ServletConfig
```
public java.lang.String getInitParameter(java.lang.String name)
public java.util.Enumeration<java.lang.String>  getInitParameterNames()
public ServletContext getServletContext()
```

Μέθοδοι Διασύνδεσης (Interface) ServletContext
```
public java.lang.Object getAttribute(java.lang.String name)
java.util.Enumeration<java.lang.String> getAttributeNames()
void setAttribute(java.lang.String name,java.lang.Object object)
void removeAttribute(java.lang.String name)
```

```
Παραδείγματα Δηλώσεων (Annotations)
Π.Χ @WebServlet("/path")}
public class TestServlet extends HttpServlet ... {

Π.Χ @WebServlet(name="TestServlet", urlPatterns={"/path", "/alt"})
public class TestServlet extends HttpServlet ... {
```

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Βοηθητικές Κλάσεις

Μέθοδοι Κλάσης Integer
```
public static int parseInt(String s) throws NumberFormatException
```

Μέθοδοι Κλάσης Double
```
public static int parseDouble(String s) throws NumberFormatException
```


JDBC – Java Database Connectivity API

Μέθοδοι Κλάσης Class (Δεν ανήκει στο JDBC αλλά την χρησιμοποιήσαμε μαζί)
```
public static Class<?> forName(String className) throws ClassNotFoundException
```

Μέθοδοι Κλάσης DriverManager
```
public static Connection getConnection(String url) throws SQLException
```

Μέθοδοι Διασύνδεσης (Interface) Connection
```
void close() throws SQLException
Statement createStatement()throws SQLException
PreparedStatement prepareStatement(String sql) throws SQLException
```

Μέθοδοι Διασύνδεσης (Interface) Statement
```
ResultSet executeQuery(String sql)throws SQLException
int executeUpdate(String sql)throws SQLException
```

Μέθοδοι Διασύνδεσης (Interface) PreparedStatement
```
ResultSet executeQuery()throws SQLException
int executeUpdate() throws SQLException
void setInt(int parameterIndex, int x) throws SQLException
void setString(int parameterIndex, String x) throws SQLException
```

Μέθοδοι Διασύνδεσης (Interface) ResultSet
```
int getInt(int columnIndex)throws SQLException
int getInt(String columnLabel) throws SQLException
double getDouble(int columnIndex)throws SQLException
double getDouble(String columnLabel) throws SQLException
String getString(int columnIndex)throws SQLException
String getString(String columnLabel) throws SQLException
void close()throws SQLException
boolean next() throws SQLException
```

SQL

```
select <columns> from <table> where …
insert into <table> ( <columns> ) values (<values>)
update <table> set <col1> = <val1>, …   where …
delete from <table> where …
```

JSP

Ετικέτες
```
<% Κώδικας %>
<%! Δηλώσεις %>
<%= Παράσταση %>
<%@ Οδηγία %>  (Οδηγίες: page, include.  Χαρακτηριστικά (Attributes):  contectType, import, pageEncoding)
```

Παρεχόμενα αντικείμενα σε jsp σελίδες

```
request, response, out, session, application, config, pageContext, page
```

HTML

```
<html> </html>
<head> </head>
<body> </body>
<form action="…" method="…" >
<input type="…" name="…" value="…" />     (type: text, submit, radio, checkbox, hidden)
<select name="…" > … </select>
<option value="…"> … </option>
<ol> </ol>
<ul> </ul>
<li> </li>
<table> </table>
<th> </th>
<tr> </tr>
```