1. **反射机制：**反射是指程序可以访问、检测和修改它本身状态或行为的一种能力

Java反射机制主要提供了以下功能：

1.在运行时判断任意一个对象所属的类。

2.在运行时构造任意一个类的对象。

3.在运行时判断任意一个类所具有的成员变量和方法。

4.在运行时调用任意一个对象的方法。

**2．枚举：**

**package** com.work1;

**import** java.io.IOException;

**import** java.io.PrintWriter;

**import** java.sql.Date;

**import** javax.servlet.ServletException;

**import** javax.servlet.http.HttpServlet;

**import** javax.servlet.http.HttpServletRequest;

**import** javax.servlet.http.HttpServletResponse;

**import** com.sun.jmx.snmp.Timestamp;

**import** com.sun.org.apache.bcel.internal.generic.NEW;

**import** javafx.util.converter.PercentageStringConverter;

**public** **class** HelloWorldServlet **extends** HttpServlet{

**private** **int** times;

**private** **int** age1;

**private** **int** age2;

**private** **int** age3;

@Override

**public** **void** init() **throws** ServletException {

times = Integer.*valueOf*( getInitParameter("times"));

age1 = Integer.*valueOf*(getInitParameter("Bob"));

age2 = Integer.*valueOf*(getInitParameter("Peter"));

age3 = Integer.*valueOf*(getInitParameter("King"));

}

@Override

**protected** **void** doGet(HttpServletRequest req,

HttpServletResponse resp)**throws** SecurityException,IOException{

req.setCharacterEncoding("UTF-8");

resp.setContentType("text/html;charset=UTF-8");

PrintWriter out = resp.getWriter();

out.print("Bob: "+age1+"</br>");

out.print("Peter: "+age2+"</br>");

out.print("King: "+age3+"</br>");

times++;

out.print("您是第"+times+"位来本网站的");

}

}

<?xml version=*"1.0"* encoding=*"UTF-8"*?>

<web-app xmlns:xsi=*"http://www.w3.org/2001/XMLSchema-instance"* xmlns=*"http://xmlns.jcp.org/xml/ns/javaee"* xsi:schemaLocation=*"http://xmlns.jcp.org/xml/ns/javaee http://xmlns.jcp.org/xml/ns/javaee/web-app\_3\_1.xsd"* id=*"WebApp\_ID"* version=*"3.1"*>

<display-name>Web\_1</display-name>

<servlet>

<servlet-name>a</servlet-name>

<servlet-class>com.work1.HelloWorldServlet</servlet-class>

<init-param>

<param-name>Bob</param-name>

<param-value>2</param-value>

</init-param>

<init-param>

<param-name>Peter</param-name>

<param-value>7</param-value>

</init-param>

<init-param>

<param-name>King</param-name>

<param-value>9</param-value>

</init-param>

<init-param>

<param-name>times</param-name>

<param-value>0</param-value>

</init-param>

</servlet>

<servlet-mapping>

<servlet-name>a</servlet-name>

<url-pattern>/hw.abc</url-pattern>

</servlet-mapping>

<welcome-file-list>

<welcome-file>index.html</welcome-file>

<welcome-file>index.htm</welcome-file>

<welcome-file>index.jsp</welcome-file>

<welcome-file>default.html</welcome-file>

<welcome-file>default.htm</welcome-file>

<welcome-file>default.jsp</welcome-file>

</welcome-file-list>

</web-app>