**Java Servlet Practice Questions with Low Difficulty Level**

1. [Write a program to create a servlet that displays the welcome message.](https://www.programmingempire.com/program-to-create-a-servlet-that-displays-the-welcome-message/)
2. [Create a simple interest calculator web page using a servlet.](https://www.programmingempire.com/perform-interest-calculation-using-a-servlet/)

Design an html page with the following content

<form method=”get” action=”InterestServlet”>

Principle:<input type=”text”><br/>

Rate of interest:<input type=”text”></br>

No of years: <input type=”text”><br/><br/>

<input type=”submit” value=”Submit”>

</form>

public class InterestServlet extends HttpServlet {

@Override protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

double principle = Double.parseDouble(request.getParameter("principle"));

double rate = Double.parseDouble(request.getParameter("rate"));

int time = Integer.parseInt(request.getParameter("time"));

double interest = (principle \* rate \* time) / 100;

You need to write the information to the dynamic webpage as shown below

/\*request.setAttribute("interest", interest);

RequestDispatcher dispatcher = request.getRequestDispatcher("/interest-result.html");

dispatcher.forward(request, response); \*/

}

}

Here is an dynamic output.

<!DOCTYPE html>

<html>

<head>

<title>Interest Calculator Result</title>

</head>

<body>

<h1>Interest Calculator Result</h1>

<p>Interest: 25000</p>

</body>

</html>

1. [Develop a dynamic web application using servlets to create and display cookies.](https://www.programmingempire.com/how-to-create-and-display-cookies-using-servlets/)

public class CookieServlet extends HttpServlet { @Override protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { String name = request.getParameter("name"); if (name != null) { Cookie cookie = new Cookie("name", name); cookie.setMaxAge(30 \* 24 \* 60 \* 60); // 30 days response.addCookie(cookie); response.sendRedirect("/display-cookie"); } else { RequestDispatcher dispatcher = request.getRequestDispatcher("/create-cookie.jsp"); dispatcher.forward(request, response); } } }

public class DisplayCookieServlet extends HttpServlet { @Override protected void doGet(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException { Cookie[] cookies = request.getCookies(); String name = null; if (cookies != null) { for (Cookie cookie : cookies) { if (cookie.getName().equals("name")) { name = cookie.getValue(); break; } } } request.setAttribute("name", name); RequestDispatcher dispatcher = request.getRequestDispatcher("/display-cookie.jsp"); dispatcher.forward(request, response); } }

**Here is an example of the JSP page, create-cookie.html.**

<!DOCTYPE html>

<html>

<head>

<title>Create Cookie</title>

</head>

<body>

<h1>Create Cookie</h1>

<form action="/" method="get">

<div>

<label for="name">Name:</label>

<input type="text" id="name" name="name">

</div>

<div>

<button type="submit">Create Cookie</button>

</div>

</form>

</body>

</html>

**Here is an example of the JSP page, display-cookie.jsp.**

<!DOCTYPE html>

<html>

<head>

<title>Display Cookie</title>

</head>

<body>

<h1>Display Cookie</h1>

<p>Name: ${name}</p>

</body>

</html>

1. [Create a registration form and display the values entered by the user in another page using servlets.](https://www.programmingempire.com/display-form-data-on-another-page-using-servlets/)
2. [Write a program using servlets to display data from a database table](https://www.programmingempire.com/display-data-from-a-database-table-using-servlets/).
3. [Display a servlet that fetches init parameters from web.xml displaying user information](https://www.programmingempire.com/how-to-display-init-parameters-using-a-servlet/).
4. [Write a program using servlets to create and display context parameters.](https://www.programmingempire.com/how-to-display-context-parameters-using-servlets/)
5. [Develop a dynamic web application using servlets to to demonstrate doGet(), and doPost() methods](https://www.programmingempire.com/demonstrate-doget-and-dopost-methods-in-a-servlet-in-java/).
6. [Write an application using servlets to show how forward() method works.](https://www.programmingempire.com/how-to-use-forward-method-in-a-servlet/)
7. Also, [**demonstrate the use of include() method in servlets**](https://www.programmingempire.com/demonstrate-the-use-of-include-method-in-servlets/).
8. Furthermore, [show how sendRedirect() method works using servlets](https://www.programmingempire.com/how-to-use-sendredirect-method-in-a-servlet/).
9. [In order to demonstrate the working of servlet filters create a dynamic web application.](https://www.programmingempire.com/how-to-use-servlet-filters/)

**Java Servlet Practice Questions with Medium Difficulty Level**

1. [Develop an application using HTTP servlet to process the form data.](https://www.programmingempire.com/an-http-servlet-to-process-the-form-data/)
2. [Write a program that creates an HTTP servlet to perform session tracking](https://www.programmingempire.com/session-tracking-using-an-http-servlet/)
3. [Create an HTTP servlet to perform various database operations.](https://www.programmingempire.com/database-operations-with-http-servlet/)
4. [Develop a struts application to perform the processing of a form data.](https://www.programmingempire.com/how-to-perform-form-handling-using-struts/)
5. When should we use annotations? Also, Demonstrate the use of servlet annotations in a program.
6. Create an application to demonstrate servlet listeners.