# DATE: SERVLET PROGRAMMING AIM: To write the program for the given problems using servlet ALGORITHM: STEP 1. HTML Form Setup: - Create an HTML form for movie search with method `post`. - Include an input field for the search term (`searchTerm`). STEP 2. Servlet Initialization: - Define a servlet class named `greet` that extends `HttpServlet`. STEP 3. Request Processing: - Override the `doPost` method to handle POST requests. - Inside `doPost`: - Retrieve user's name (`uname`) and selected language (`select`) from request parameters. - Create cookies for `uname` and `select`. - Add cookies to the response. - Generate greeting messages based on the selected language. - Write HTML response with greetings and farewell messages.

### STEP 4. Response Generation:

EX NO: 7

- Set response content type to "text/html;charset=UTF-8".
- Get PrintWriter object to write HTML content.

### STEP 5. Cookie Management:

- Create cookies for storing user's name and selected language.

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- Add cookies to the response.

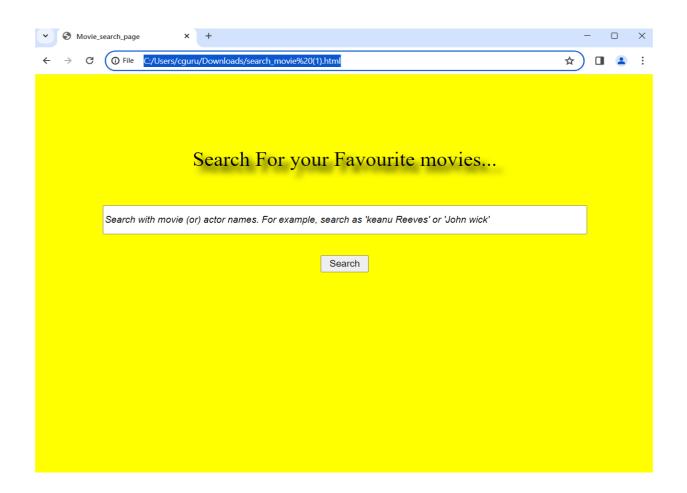
### STEP 6. Greeting Message Selection:

- Use if-else conditions to determine the greeting message based on the selected language.
- Generate personalized greeting messages based on language selection.
- Write the HTML content including the greeting message and a farewell message in the selected language.

```
PROGRAM 1:
<!DOCTYPE html>
<html>
<head>
  <title>Movie Search</title>
</head>
<body>
  <h1>Movie Search</h1>
  <form action="http://localhost:38947/WebApplication14/MovieSearchServlet"</pre>
method="post">
    <label for="searchTerm">Search by Title or Actor:</label><br>
    <input type="text" id="searchTerm" name="searchTerm" required><br><br>
    <input type="submit" value="Search">
  </form>
</body>
</html>
import java.io.IOException;
import java.util.ArrayList;
import java.util.List;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/movies")
public class MovieServlet extends HttpServlet {
  private static final long serialVersionUID = 1L;
```

```
// Dummy movie data
  private List<Movie> movies = new ArrayList<>();
  public MovieServlet() {
    // Sample movie data
    movies.add(new Movie("Inception", "Leonardo DiCaprio"));
    movies.add(new Movie("The Shawshank Redemption", "Tim Robbins, Morgan
Freeman"));
    movies.add(new Movie("The Godfather", "Marlon Brando, Al Pacino"));
    movies.add(new Movie("The Dark Knight", "Christian Bale, Heath Ledger"));
  }
  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    String action = request.getParameter("action");
    if ("search".equals(action)) {
       String query = request.getParameter("query");
       List<Movie> searchResults = searchMovies(query);
       request.setAttribute("movies", searchResults);
       request.getRequestDispatcher("/movies.jsp").forward(request, response);
     } else {
       request.setAttribute("movies", movies);
       request.getRequestDispatcher("/movies.jsp").forward(request, response);
    }
  private List<Movie> searchMovies(String query) {
    List<Movie> results = new ArrayList<>();
    for (Movie movie : movies) {
```

### **OUTPUT:**



### Your Search Results are...

- -> DHANUSH MOONU
- -> DHANUSH PATTAS
- -> DHANUSH THIRUCHITRAMBALAM
- -> DHANUSH YAARADI NEE MOHINI
- -> DHANUSH KODI
- -> DHANUSH VIP
- -> DHANUSH VAATHI

### PROGRAM 2:

```
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Create Quiz</title>
  k rel="stylesheet" type="text/css" href="styles.css">
</head>
<body>
  <h1>Create Quiz</h1>
  <form action="QuizServlet" method="post">
    <label for="question">Question:</label>
    <input type="text" id="question" name="question" required><br>
    <label for="answer">Answer:</label>
    <input type="text" id="answer" name="answer" required><br>
    <button type="submit">Add Question</button><br><br><br
```

```
</form>
  <h2>Quiz Preview</h2>
  \langle ul \rangle
    <!-- Servlet will populate this list -->
  </body>
</html>
import java.io.IOException;
import java.io.PrintWriter;
import java.util.ArrayList;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
import javax.servlet.http.HttpSession;
@WebServlet("/QuizServlet")
public class QuizServlet extends HttpServlet {
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
IOException {
    String question = request.getParameter("question");
    String answer = request.getParameter("answer");
    HttpSession session = request.getSession();
     @SuppressWarnings("unchecked")
    ArrayList<String> quiz = (ArrayList<String>) session.getAttribute("quiz");
    if (quiz == null) {
       quiz = new ArrayList<>();
```

```
session.setAttribute("quiz", quiz);
}
quiz.add("Q: " + question + " - A: " + answer);
response.sendRedirect("index.html");
}
OUTPUT:
```

—Question 1-	
	Here Question goes here
	What is the capital of India
	Option 1: DELHI
	Option 2: CHENNAI
	Option 3: MADURAI
	Correct Answer: DELHI

Question 2		
	Here Question goes here	
	Which planet is known as red planet	
	Option 1: SUN Option 2: EARTH	
	Option 3: MARS	
	Correct Answer: MARS	

From	whom ash got his first Poke	emon?
	Option 1: Prof. Sycamore	]
	Option 2: His mother	
	Option 3: Prof. Oak	
	Correct Answer: Prof. Oak	

# Successfully created your quiz!

# Start your Quiz

1) Which is the first Pokemon does Ash Ketchum catch?

○Pikachu	erPie OCharmander	
) Why Greninja left A	sh & stayed in Kalos region i	tself?
⊕ To save kalos regio	on oas greninja found his ma	te oas he hates Ash
3) From whom ash got	his first Pokemon?	

### Your Results are...

```
1 - Correct Answer
2 - Correct Answer
3 - Wrong Answer.
Correct Answer: Prof. Oak
```

Your score: 2/3

```
PROGRAM 3:
<!DOCTYPE html>
<html lang="en">
<head>
  <meta charset="UTF-8">
  <meta name="viewport" content="width=device-width, initial-scale=1.0">
  <title>Language Selection</title>
</head>
<body>
  <h1>Select Your Preferred Language</h1>
  <form action="LanguageServlet" method="post">
    <label for="language">Preferred Language:</label>
    <select id="language" name="language">
      <option value="english">English</option>
      <option value="french">French</option>
      <option value="spanish">Spanish</option>
    </select>
    <button type="submit">Submit</button>
  </form>
</body>
</html>
import java.io.IOException;
```

```
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/LanguageServlet")
public class LanguageServlet extends HttpServlet {
  protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    String language = request.getParameter("language");
    // Store the selected language in a cookie
    Cookie cookie = new Cookie("preferredLanguage", language);
    cookie.setMaxAge(30 * 24 * 60 * 60); // Cookie valid for 30 days
    response.addCookie(cookie);
    // Redirect to the greeting page
    response.sendRedirect("GreetingPage");
  }
}
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.Cookie;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;
@WebServlet("/GreetingPage")
```

```
public class GreetingPage extends HttpServlet {
  protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
    // Retrieve preferred language from cookie
    String language = "";
    Cookie[] cookies = request.getCookies();
    if (cookies != null) {
       for (Cookie cookie : cookies) {
         if (cookie.getName().equals("preferredLanguage")) {
            language = cookie.getValue();
            break;
          }
       }
     }
    // Display greeting in the preferred language
    String greeting = "";
    switch (language) {
       case "english":
         greeting = "Hello!";
         break;
       case "french":
         greeting = "Bonjour!";
         break;
       case "spanish":
         greeting = "¡Hola!";
         break;
       default:
         greeting = "Hello!";
     }
```

```
response.setContentType("text/html");
response.getWriter().println("<h1>" + greeting + "</h1>");
}
OUTPUT:
```

# WELCOME, BROWSE WITH YOUR LANGUAGE Your Name; GURU Select your preferred Language English G G

## HAVE A GOOD DAY;

	Code/Output (20)	
	Quiz (5)	
	Record (5)  Total (30)	
	Initial	
RESULT:		
	erified successfully	
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