

ADV – JAVA LAB

NAME – GAGAN VIJAY BHANGALE

1)

```
import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


/**
 * Servlet implementation class Decide
 */
@WebServlet("/Decide")
public class Decide extends HttpServlet {

    private static final long serialVersionUID = 1L;


    /**
     * @see HttpServlet#HttpServlet()
     */
    public Decide() {

        super();

        // TODO Auto-generated constructor stub

    }


    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    */
```

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

 // TODO Auto-generated method stub

 response.getWriter().append("Served at: ").append(request.getContextPath());

}

/**

 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)

 */

protected void doPost(HttpServletRequest request, HttpServletResponse response) throws ServletException, IOException {

 // TODO Auto-generated method stub

 doGet(request, response);

 String operation = request.getParameter("operation");

 if (operation.equals("ADD")) {

 response.sendRedirect("AddServlet?num1=" + request.getParameter("num1") + "&num2=" + request.getParameter("num2"));

 } else if (operation.equals("SUBTRACT")) {

 response.sendRedirect("SubtractServlet?num1=" + request.getParameter("num1") + "&num2=" + request.getParameter("num2"));

 } else if (operation.equals("MULTIPLY")) {

 response.sendRedirect("MultiplyServlet?num1=" + request.getParameter("num1") + "&num2=" + request.getParameter("num2"));

 }

}

}

import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

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```
import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class AddServlet
 */
@WebServlet("/AddServlet")
public class AddServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
    public AddServlet() {
        super();
        // TODO Auto-generated constructor stub
    }

    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // TODO Auto-generated method stub
        response.getWriter().append("Served at: ").append(request.getContextPath());
        int num1 = Integer.parseInt(request.getParameter("num1"));
        int num2 = Integer.parseInt(request.getParameter("num2"));
        int result = num1 + num2;
        response.setContentType("text/html");
        response.getWriter().print("<h1>Result: " + result + "</h1>");
    }
}
```

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```
    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {
        // TODO Auto-generated method stub
        doGet(request, response);
    }
}
```

```
import java.io.IOException;
import javax.servlet.ServletException;
import javax.servlet.annotation.WebServlet;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

/**
 * Servlet implementation class SubtractServlet
 */
@WebServlet("/SubtractServlet")
public class SubtractServlet extends HttpServlet {
    private static final long serialVersionUID = 1L;

    /**
     * @see HttpServlet#HttpServlet()
     */
}
```

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```
public SubtractServlet() {  
    super();  
    // TODO Auto-generated constructor stub  
}  
  
/**  
 * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)  
 */  
protected void doGet(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {  
    // TODO Auto-generated method stub  
    response.getWriter().append("Served at: ").append(request.getContextPath());  
    int num1 = Integer.parseInt(request.getParameter("num1"));  
    int num2 = Integer.parseInt(request.getParameter("num2"));  
    int result = num1 - num2;  
    response.setContentType("text/html");  
    response.getWriter().print("<h1>Result: " + result + "</h1>");  
}  
  
/**  
 * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)  
 */  
protected void doPost(HttpServletRequest request, HttpServletResponse response) throws  
ServletException, IOException {  
    // TODO Auto-generated method stub  
    doGet(request, response);  
}  
}
```

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```
import java.io.IOException;

import javax.servlet.ServletException;

import javax.servlet.annotation.WebServlet;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;


/**
 * Servlet implementation class MultiplyServlet
 */
@WebServlet("/MultiplyServlet")
public class MultiplyServlet extends HttpServlet {

    private static final long serialVersionUID = 1L;


    /**
     * @see HttpServlet#HttpServlet()
     */
    public MultiplyServlet() {

        super();

        // TODO Auto-generated constructor stub
    }


    /**
     * @see HttpServlet#doGet(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doGet(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {

        // TODO Auto-generated method stub

        response.getWriter().append("Served at: ").append(request.getContextPath());

        int num1 = Integer.parseInt(request.getParameter("num1"));

        int num2 = Integer.parseInt(request.getParameter("num2"));
```

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```
int result = num1 * num2;

response.setContentType("text/html");

response.getWriter().print("<h1>Result: " + result + "</h1>");

    }

    /**
     * @see HttpServlet#doPost(HttpServletRequest request, HttpServletResponse response)
     */
    protected void doPost(HttpServletRequest request, HttpServletResponse response) throws
ServletException, IOException {

        // TODO Auto-generated method stub

        doGet(request, response);

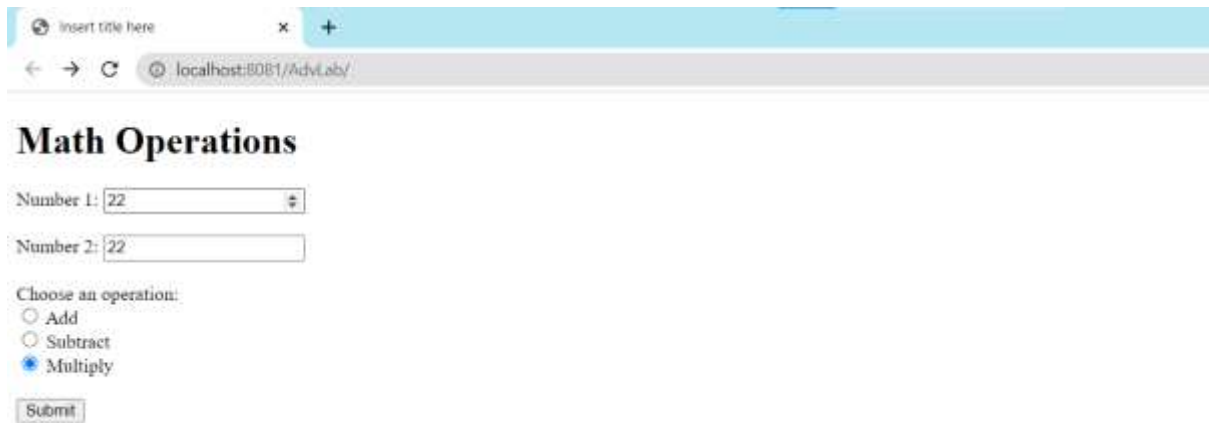
    }

}

<!DOCTYPE html>
<html>
<head>
<meta charset="ISO-8859-1">
<title>Insert title here</title>
</head>
<body>
    <h1>Math Operations</h1>
    <form action="Decide" method="POST">
        <label for="num1">Number 1:</label>
        <input type="number" id="num1" name="num1"><br><br>
        <label for="num2">Number 2:</label>
        <input type="number" id="num2" name="num2"><br><br>
        <label>Choose an operation:</label><br>
        <input type="radio" id="add" name="operation" value="ADD">
        <label for="add">Add</label><br>
        <input type="radio" id="subtract" name="operation" value="SUBTRACT">
        <label for="subtract">Subtract</label><br>
        <input type="radio" id="multiply" name="operation" value="MULTIPLY">
        <label for="multiply">Multiply</label><br><br>
        <input type="submit" value="Submit">
    </form>

</body>
</html>
```

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Insert title here x +

localhost:8081/AdvLab/

Math Operations

Number 1:

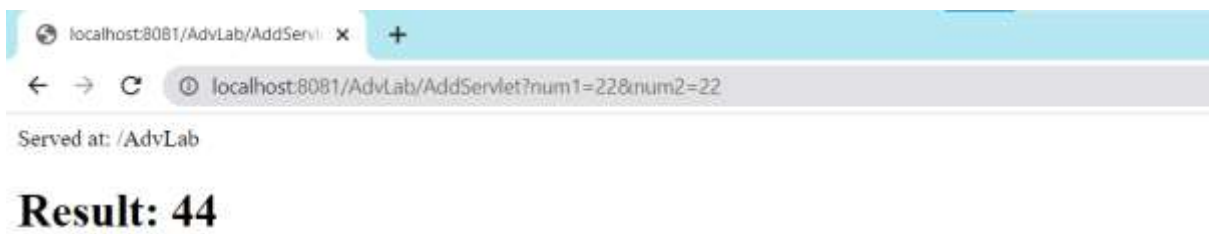
Number 2:

Choose an operation:

☐ Add

☐ Subtract

☒ Multiply



localhost:8081/AdvLab/AddServlet x +

localhost:8081/AdvLab/AddServlet?num1=22&num2=22

Served at: /AdvLab

Result: 44

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