**Online WK03\_3 – SERVLETS – Assignment**

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**Q. Create a java web application using servlets which take 2 numbers and operation to be performed on them as input from users and displays the result on next page.**

**Sol.**

index.html

<!DOCTYPE html>

<html>

<head>

<meta charset=*"UTF-8"*>

<title>Insert title here</title>

</head>

<body>

<form action=*"add"*>

Enter first number<input type=*"text"* name=*"num1"*><br>

Enter second number<input type=*"text"* name=*"num2"*><br>

Enter operation to perform<br>

<label for=*"operation"*>Choose a operation:</label>

<select name=*"operation"* id=*"operation"*>

<option value=*"Addition"*>Addition</option>

<option value=*"Subtraction"*>Subtraction</option>

<option value=*"Multiplication"*>Multiplication</option>

<option value=*"Division"*>Division</option>

</select>

<input type=*"submit"*>

</form>

</body>

</html>

AddServlet.java

package com.abhinav;

import java.io.IOException;

import java.io.PrintWriter;

import javax.servlet.http.HttpServlet;

import javax.servlet.http.HttpServletRequest;

import javax.servlet.http.HttpServletResponse;

public class FirstServlet extends HttpServlet{

public void service(HttpServletRequest req,HttpServletResponse res) throws IOException {

int i=Integer.parseInt(req.getParameter("num1"));

int j=Integer.parseInt(req.getParameter("num2"));

String op=(String)req.getParameter("operation");

int k=0;

if(op.equals("Addition") ){

k=i+j;

}

else if(op.equals("Subtraction")) {

k=i-j;

}

else if(op.equals("Multiplication")){

k=i\*j;

}

else if(op.equals("Division")){

k=i/j;

}

PrintWriter out=res.getWriter();

out.println(op+ " is : " +k);

// res.getWriter.println("result is : "+k);

}

}

web.xml

<?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\_4\_0.xsd"* id=*"WebApp\_ID"* version=*"4.0"*>

<servlet>

<servlet-name>abc</servlet-name>

<servlet-class>com.abhinav.FirstServlet</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>abc</servlet-name>

<url-pattern>/add</url-pattern>

</servlet-mapping>

</web-app>

**Output-**

**Addition**

**Graphical user interface, text, application

Description automatically generatedGraphical user interface, text

Description automatically generated**

**Subtraction**

**Graphical user interface, text, application

Description automatically generated**

**Graphical user interface, text, application, chat or text message

Description automatically generated**

**Multiplication**

**Graphical user interface, text, application, chat or text message, email

Description automatically generated**

Graphical user interface, text, application, chat or text message, website

Description automatically generated

**Division**

Graphical user interface, text, application

Description automatically generatedGraphical user interface, text, application, chat or text message

Description automatically generated

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