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**Batch: M5 32162**

**Problem Statement: Create simple calculator application using Servlet.**

**Code:**

**Java File**

import jakarta.servlet.ServletException;

import jakarta.servlet.annotation.WebServlet;

import jakarta.servlet.http.HttpServlet;

import jakarta.servlet.http.HttpServletRequest;

import jakarta.servlet.http.HttpServletResponse;

import java.io.IOException;

import java.io.PrintWriter;

public class Exp10 extends HttpServlet

{

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

{

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

PrintWriter out =response.getWriter();

out.println("<html><head><title>Servlet Exp10</title></head><body>");

double n1 = Double.parseDouble(request.getParameter("txtN1"));

double n2 = Double.parseDouble(request.getParameter("txtN2"));

double result =0;

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

if(opr.equals("+"))

{

result=n1+n2;

}

if(opr.equals("\*"))

{

result=n1\*n2;

}

if(opr.equals("-"))

{

result=n1-n2;

}

if(opr.equals("/"))

{

result=n1/n2;

}

out.println("<h1> Result = "+result+"</h1>");

out.println("</body></html>");

}

}

**HTML File**

<!DOCTYPE html>

<html>

<head>

<title>Calculator App</title>

</head>

<body>

<form action="Exp10" >

Enter First Number <input type="text" name="txtN1">

<br> Enter Second Number <input type="text" name="txtN2" >

<br> Select an Operation<input type="radio" name="opr" value="+">

ADDTION <input type="radio" name="opr" value="-">

SUBTRACTION <input type="radio" name="opr" value="\*">

MULTIPLICATION <input type="radio" name="opr" value="/">

DIVISION <br><input type="reset">

<input type="submit" value="Calculate" >

</form>

</body>

</html>