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Assignment : B2

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HTML FILE:

<!--

To change this template, choose Tools | Templates
and open the template in the editor.

-->

<!DOCTYPE html>

<html>

<head>

<title></title>

<meta http-equiv="Content-Type" content="text/html; charset=UTF-8">

</head>

<body bgcolor="#E6E6FA">

<center>

<form action="Sort" method="POST">

<h1>Parallel ODD EVEN SORT</h1>

NUMBER ::<input type="text" name="Number" value="" />:

OPERATION ::<input type="reset" value="Clear" />

<input type="submit" name="action" value="Insert">

<input type="submit" name="action" value="Sorting">

</form>

</center>

</body>

</html>

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XML FILE:

WEB XML FILE :

<?xml version="1.0" encoding="UTF-8"?>

<web-app version="3.0" xmlns="http://java.sun.com/xml/ns/javaee" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="http://java.sun.com/xml/ns/javaee http://java.sun.com/xml/ns/javaee/web-app_3_0.xsd">

<servlet>

<servlet-name>Sort</servlet-name>

<servlet-class>Sort</servlet-class>

</servlet>

<servlet-mapping>

<servlet-name>Sort</servlet-name>

<url-pattern>/Sort</url-pattern>

</servlet-mapping>

<session-config>

<session-timeout>

30

</session-timeout>

</session-config>

<welcome-file-list>

<welcome-file>welcome.html</welcome-file>

</welcome-file-list>

</web-app>

=====

```

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

```

```

public class Sort extends HttpServlet {

```

```

    public int []array = new int[10];
    public int count=0;
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        PrintWriter out = response.getWriter();
        String action = request.getParameter("action");
        if ("Insert".equals(action)){
            String num=request.getParameter("Number");
            array[count++]=Integer.parseInt(num);
            out.print("<center>");
            out.print("\n Your Data is Inserted Sucessfully !!! \n");
            out.print("</center>");
        } else if ("Sorting".equals(action)){
            for (int i = 0; i < count/2; i++ ) {
                for (int j = 0; j+1 < count; j += 2)
                    if (array[j] > array[j+1]) {
                        int T = array[j];
                        array[j] = array[j+1];
                        array[j+1] = T;
                    }
                for (int j = 1; j+1 < count; j += 2)
                    if (array[j] > array[j+1]) {
                        int T = array[j];
                        array[j] = array[j+1];
                        array[j+1] = T;
                    }
            }
            out.println("\n Sorted Array !!!!\n");

            for(int i=0;i<count;i++){
                out.println(array[i]);
            }
        }
    }
}

```

// <editor-fold defaultstate="collapsed" desc="HttpServlet methods. Click on the + sign on the left to edit the code.">

```

/**
 * Handles the HTTP
 * <code>GET</code> method.
 *
 * @param request servlet request
 * @param response servlet response

```

```

    * @throws ServletException if a servlet-specific error occurs
    * @throws IOException if an I/O error occurs
    */
    @Override
    protected void doGet(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Handles the HTTP
     * <code>POST</code> method.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
    @Override
    protected void doPost(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        processRequest(request, response);
    }

    /**
     * Returns a short description of the servlet.
     *
     * @return a String containing servlet description
     */
    @Override
    public String getServletInfo() {
        return "Short description";
    } // </editor-fold>
}

```

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OUTPUT:

Parallel ODD EVEN SORT

NUMBER ::

OPERATION ::

Your Data is Inserted Sucessfully !!!

Sorted Array !!!! 0 0 2 4 5 5 6 8