

```
/*
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 * and open the template in the editor.

```

```

*/
package D;

import java.io.*;
import java.util.*;

// This class represents a
// directed graph using adjacency
// list representation
class Graph {

    private int V;

    // Array of lists for
    // Adjacency List Representation
    private LinkedList<Integer> adj[];

    Graph(int v) {
        V = v;
        adj = new LinkedList[V];
        for (int i = 0; i < v; ++i) {
            adj[i] = new LinkedList();
        }
    }

    // Function to add an edge into the graph
    void addEdge(int v, int w) {
        // Add w to v's list.
        adj[v].add(w);
    }

    // A function used by DFS
    void DFSUtil(int v, boolean visited[]) {
        // Mark the current node as visited and print it
        visited[v] = true;
        System.out.print(v + " "); //0=====>

        // Recur for all the vertices adjacent to this
        // vertex
        Iterator<Integer> i = adj[v].listIterator();
        while (i.hasNext()) {
            int n = i.next();
            if (!visited[n]) {
                DFSUtil(n, visited);
            }
        }
    }

    // The function to do DFS traversal.
    // It uses recursive DFSUtil()
    void DFS(int v) {
        // Mark all the vertices as
        // not visited(set as
        // false by default in java)
        boolean visited[] = new boolean[V];
    }
}

```

```

// Call the recursive helper
// function to print DFS
// traversal
DFSUtil(v, visited);
}

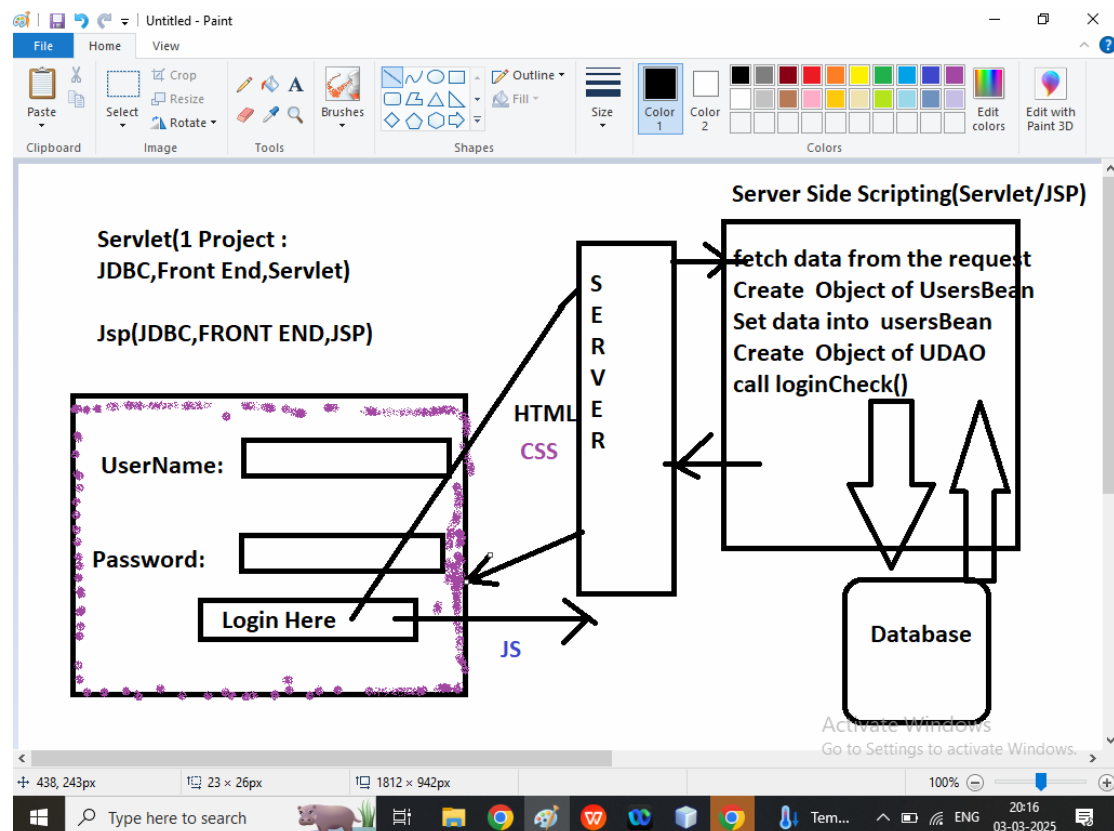
// Driver Code
public static void main(String args[]) {
    Graph g = new Graph(4);

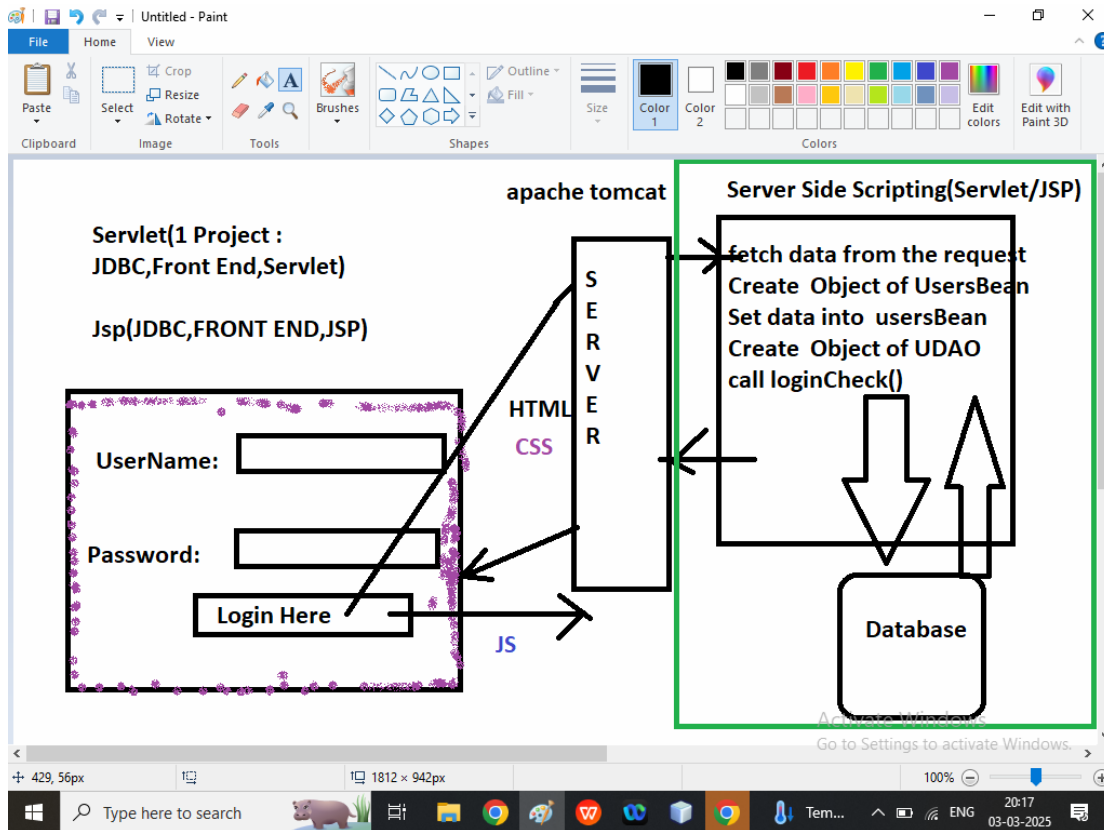
    g.addEdge(0, 1);
    g.addEdge(0, 2);
    g.addEdge(1, 2);
    g.addEdge(2, 0);
    g.addEdge(2, 3);

    System.out.println(
        "Following is Depth First Traversal "
        + "(starting from vertex 0)");

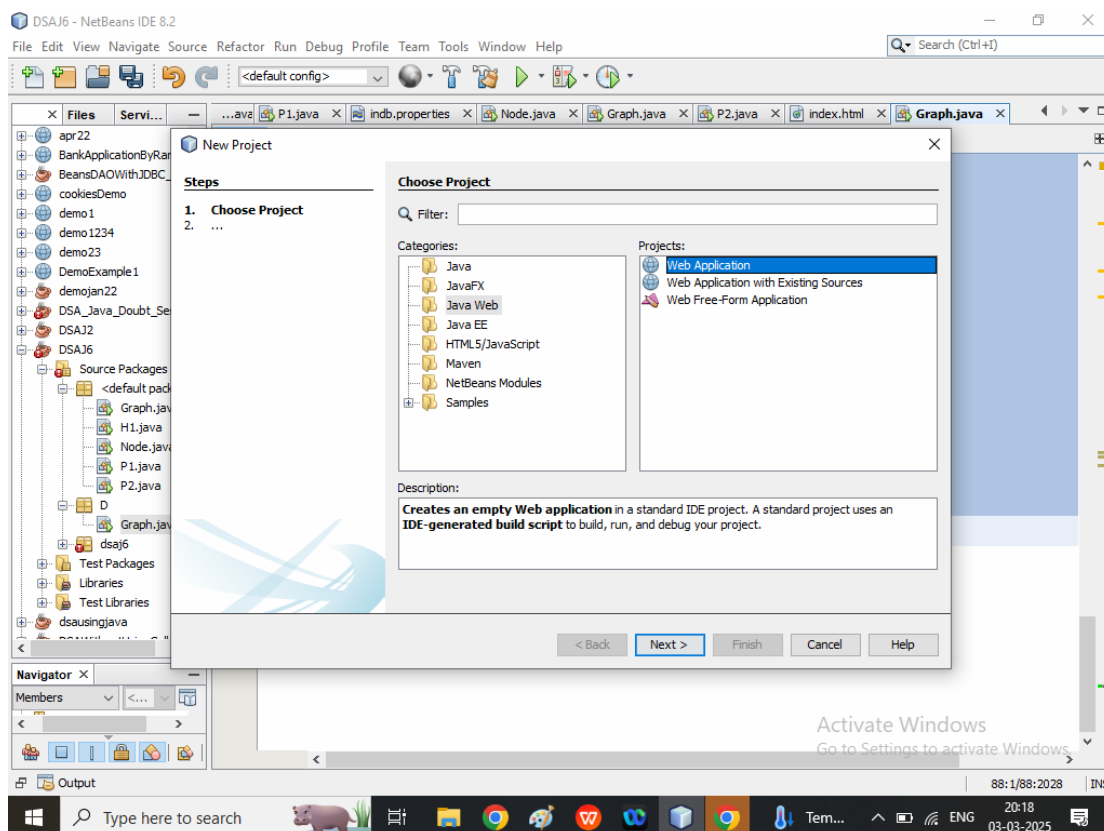
    // Function call
    g.DFS(0);
}
}

```

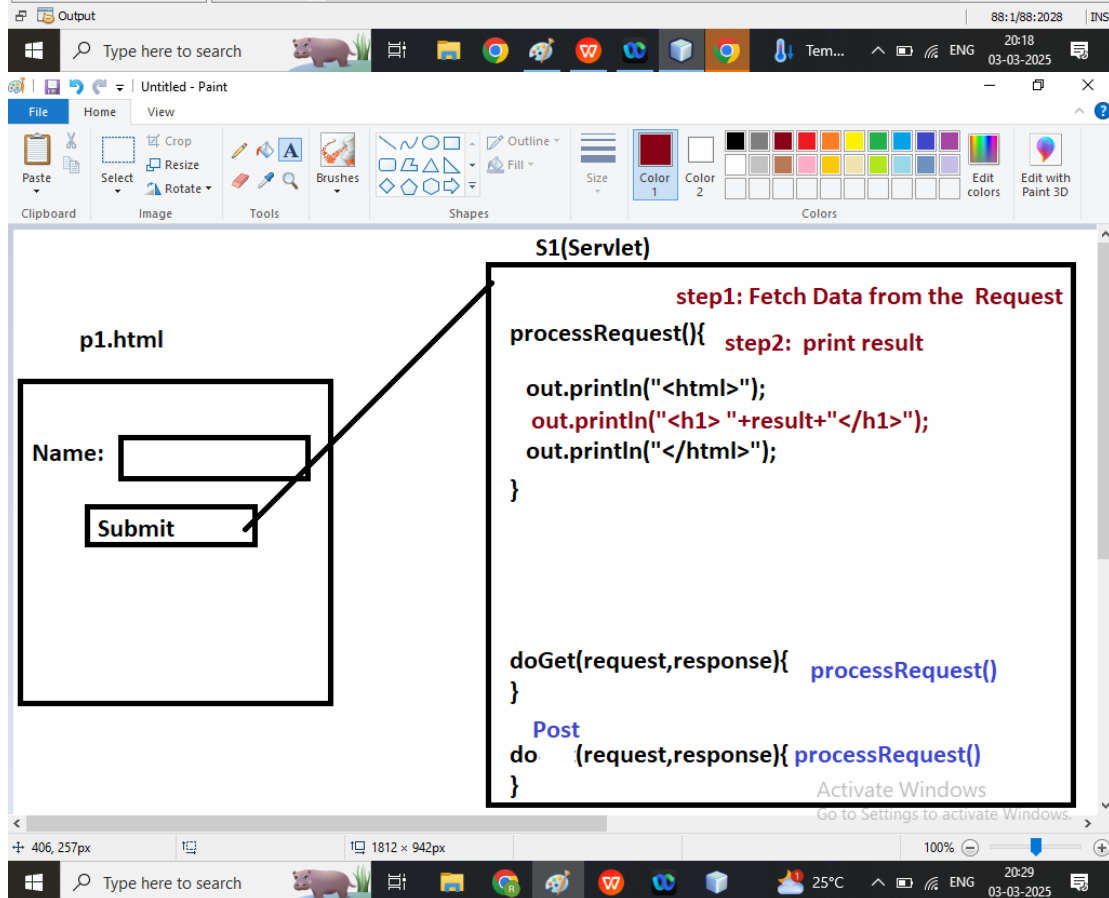
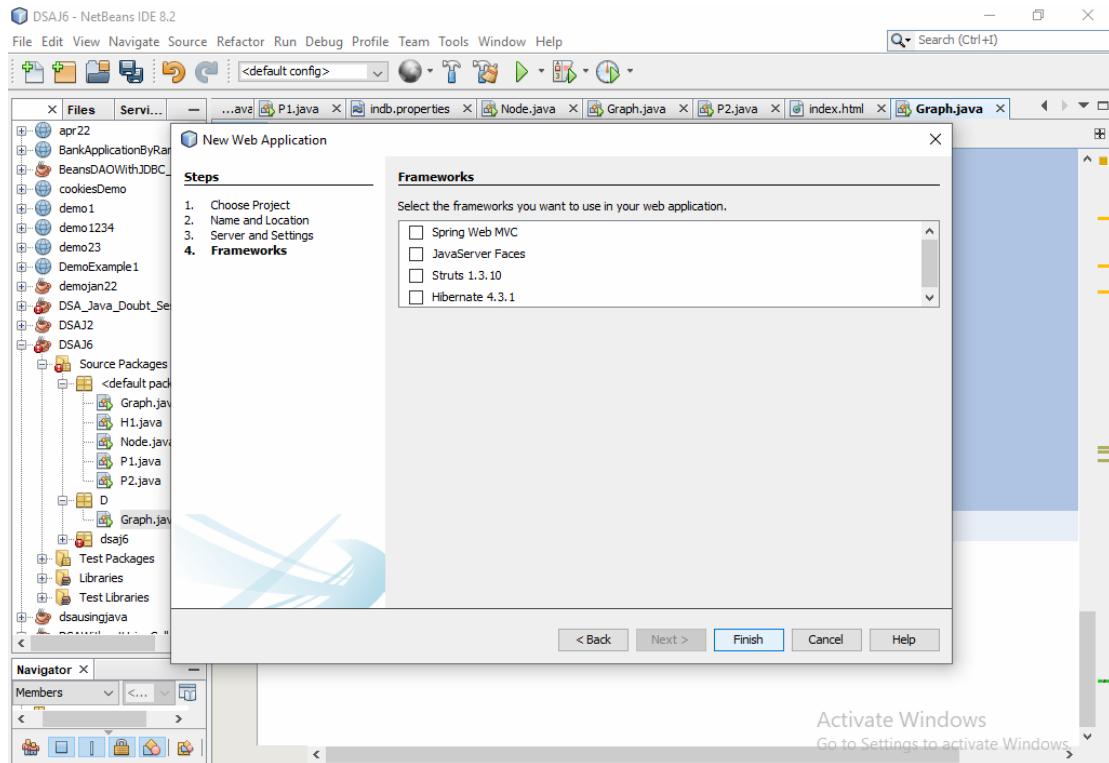




## Q2. How to create web project in Netbeans IDE



Give name of the project and no need to select any framework



P2.html

Name :

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```
*/
```

```
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;
```

```
/**
 *
 * @author Admin
 */
```

```
public class S1 extends HttpServlet {
```

```
    /**
     * Processes requests for both HTTP <code>GET</code> and <code>POST</code>
     * methods.
     *
     * @param request servlet request
     * @param response servlet response
     * @throws ServletException if a servlet-specific error occurs
     * @throws IOException if an I/O error occurs
     */
```

```
    protected void processRequest(HttpServletRequest request, HttpServletResponse response)
        throws ServletException, IOException {
        response.setContentType("text/html;charset=UTF-8");
        try (PrintWriter out = response.getWriter()) {
            /* TODO output your page here. You may use following sample code. */
            out.println("<!DOCTYPE html>");
            out.println("<html>");
            out.println("<head>");
            out.println("<title>Servlet S1</title>");
            out.println("</head>");
            out.println("<body>");
            //step1: Fetch Data from the Request
            String name=request.getParameter("name");
            //step2: Print The Result
            out.println("<h1>Weclome " + name + "</h1>");
            out.println("</body>");
            out.println("</html>");
        }
    }
}
```

```
// <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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