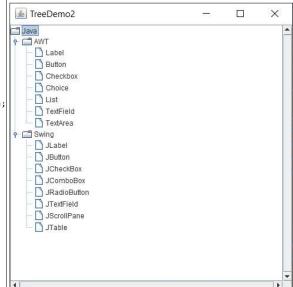
## Experiment 7

	Definition /
>	Three is used to display the tree structure data or heirarchical data.
	data or heirarchical data
	Therefore agray
1.	
>	Three get Path For Location (int x, int y) Returns the path for the node at the specified location.
	Returns the path for the node at the
	specified togation
3-	NI I
>	1) Javax. swing tree. Default Mutable Tree Node
	il) invox swing tree Default ree (elitaro)
	Till a av a ing tree Te hult tree NOOEL
	iv) invax swing tree. Default reeselection (100e)
	a) Former shippy tree Tree Loth
	vi) javax swing. Abstract Layout Cache
	vii) javax-swing- Expand Veto Exception
	Teacher's Signature

```
import javax.swing.*;
import java.awt.*;
import javax.swing.tree.*;
import java.util.*;
public class TreeDemo extends JFrame{
    int vsb=ScrollPaneConstants.VERTICAL_SCROLLBAR_ALWAYS,
hsb=ScrollPaneConstants.HORIZONTAL_SCROLLBAR_ALWAYS;
    Color teal= new Color(0,128,128);
    JTree jt;
    JScrollPane jsp;
    TreeDemo(){
        String states[]={"Maharashtra"};
String cities[][]={{"Mumbai","Pune","Nashik","Nagpur"}};
                                                                                        TreeDemo
        Container co=getContentPane();
                                                                                       🗂 India
        setLayout(new GridLayout(1,1));
                                                                                       9 🗂 Maharashtra
            DefaultMutableTreeNode root=new DefaultMutableTreeNode("India");
                                                                                            Mumbai
            for (int i=0;i<states.length;i++){</pre>
                 DefaultMutableTreeNode dmt=new DefaultMutableTreeNode(states[i]);
                                                                                            Pune
                 root.add(dmt);
                                                                                            Nashik
                 for(int j=0; j<cities[i].length;j++){</pre>
                                                                                            Nagpur Nagpur
                     dmt.add(new DefaultMutableTreeNode(cities[i][j]));
                                                                                         Gujarati
            root.add(new DefaultMutableTreeNode("Gujarati"));
        jt=new JTree(root);
        jsp=new JScrollPane(jt,vsb,hsb);
        co.add(isp);
        co.setBackground(teal);
        setVisible(true);
        setSize(500,500);
        setTitle("TreeDemo");
        this.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
    public static void main(String[] args){
        TreeDemo td=new TreeDemo();
```

```
TreeDemo — X
India
India
Maharashtra
Numbai
Nashik
Nagpur
Gujarati
```

```
import javax.swing.*;
import java.awt.*;
import java.util.*;
import javax.swing.tree.*;
import java.util.*;
public class TreeDemo2 extends JFrame{
    int vsb=ScrollPaneConstants.VERTICAL_SCROLLBAR_ALWAYS,
hsb=ScrollPaneConstants.HORIZONTAL_SCROLLBAR_ALWAYS;
    Color teal= new Color(0,128,128);
    JTree it:
    JScrollPane jsp;
    TreeDemo2(){
         String[] javaClasses={"AWT","Swing"};
String[][] data=
{{"Label","Button","Checkbox","Choice","List","TextField","TextArea"},
{"JLabel","JButton","JCheckBox","JComboBox","JRadioButton","JTextField",
"JScrollPane","JTable"}};
         Container co=getContentPane();
setLayout(new GridLayout(1,1));
              DefaultMutableTreeNode root=new DefaultMutableTreeNode("Java");
              for (int i=0;i<javaClasses.length;i++){
    DefaultMutableTreeNode dmt=new DefaultMutableTreeNode(javaClasses[i]);</pre>
                   root.add(dmt);
                   for(int j=0; j<data[i].length;j++){</pre>
                        dmt.add(new DefaultMutableTreeNode(data[i][j]));
         jt=new JTree(root);
jsp=new JScrollPane(jt,vsb,hsb);
          co.add(jsp);
         co.setBackground(teal);
          setVisible(true);
          setSize(500,500);
          setTitle("TreeDemo2");
         this.setDefaultCloseOperation(JFrame.DISPOSE ON CLOSE);
    public static void main(String[] args){
         TreeDemo2 td=new TreeDemo2();
```



```
import javax.swing.*;
import java.awt.*;
import java.util.*;
import javax.swing.tree.*;
import java.util.*;
import java.io.*;
public class TreeDemo3 extends JFrame{
    int vsb=ScrollPaneConstants.VERTICAL SCROLLBAR ALWAYS,
hsb=ScrollPaneConstants.HORIZONTAL_SCROLLBAR_ALWAYS;
     Color teal= new Color(0,128,128);
     JTree jt;
     JScrollPane jsp;
     TreeDemo3(){
         vfolders.add(dataPath.list());
                                                                                                          TreeDemo3
                                                                                                                                                            X
         Container co=getContentPane();
                                                                                                          root
          setLayout(new GridLayout(1,1));
                                                                                                          SGetCurrent
SRecycle.Bin
              DefaultMutableTreeNode root=new DefaultMutableTreeNode("root");
                                                                                                         - SRecycle Bin
- SsysReset
- SsysReset
- Sacerd6-0197-474d-bf4b-a2043e72329b
- adb
- aow_drv.log
- awastt sandbox
- BOOTNXT
- Config.Msi
- Documents and Settings
               for (int i=0;i<rootFolders.length;i++){
                   DefaultMutableTreeNode dmt=new DefaultMutableTreeNode(rootFolders[i]);
                   root.add(dmt);
                   for(int j=0; j<vfolders.size();j++){
                        dmt.add(new DefaultMutableTreeNode(vfolders.get(j)));
         jt=new JTree(root);
jsp=new JScrollPane(jt,vsb,hsb);
                                                                                                          hp
HPHWDiag_log.txt
         co.add(jsp);
                                                                                                          → ☐ inetpub
→ ☐ Intel
→ ☐ OneDriveTemp
         co.setBackground(teal);
         setVisible(true);
                                                                                                          oraclexe
pagefile.sys
PerfLogs
          setSize(500,500);
          setTitle("TreeDemo3");
         this.setDefaultCloseOperation(JFrame.DISPOSE_ON_CLOSE);
                                                                                                          ∽ 🗂 Program Files
                                                                                                          Program Files (x86)
ProgramData
     public static void main(String[] args){
          TreeDemo3 td=new TreeDemo3();
                                                                                                          - 📑 Projects
     }
                                                                                                          - Recovery
```