**IP Locator Using Java Swing**

**1.Creation of a simple panel with frame name as IP Locator** :

**JFrame**:In JFrame we add components to create the GUI.It will create a frame to make the frame visible you will have to set the visibility of the frame as true.(**what**)

JTextFrame jf=new JFrame("Hello");

jf.setVisible(true);

(**e.g.**)

**2.Setting size of the frame** : We use the .setSize(width, height) method to set the size of the frame.

(**what**)

**3.Writing “Enter the URL”** :

**JLabel** : JLabel object is used to edit and create single line text.(**what**)

JLabel jl = new JLabel(“Enter the URL”);(**e.g**)

**setBound(x,y,width,height)** : This function is used to decide orientation of the object using which it is called.(**what**)

**4.Setting the text field to enter the URL** :

**JTextField** : We use the class JTextField to register the input from the user, we can use constructor to get the text written initially.(**what**)

JTextField jtf = new JTextField(“Enter URL”);

(**e.g.**)

**5.Setting up the find IP Button** :

**JButton** : JButton class is used to set up button in the frame.(**what**)Object of this class acts as a button(jf.b(add)) is used to add button to the frame.(.setBound function is also used for button)

JButton b = new JButton(“Find IP”);

(**e.g**)

**6.Setting up the find IP Button** :

Here, we will use setActionListener(this) with the button and the class will implement ActionListener

**actionPerformed function will be used** :

It will gets text from JTextField and stores it in url.

Java Inet class : Java Inet class represents IP address. It provides method to get ip address of any host name.

**getByName** : It returns the instance of InetAddress containing LocalHost IP and name.

**getHostAddress** : It returns IP address in string format.(**what**)

**7.Displaying Dialog Box** :

JOptionPane.showMessageDialog(this,ip);

**JOptionPane** : JOptionPane is used to provide dialog boxes like conform box, input box, message box.(**what**)

Error :

error : cannot find symbol

b.setBound(100,200,100,100);

Solution :

Here, You need to add an s after Bound

Things to read before starting up with this project :

1. URL

<https://www.w3schools.com/HTML/html_urlencode.asp>