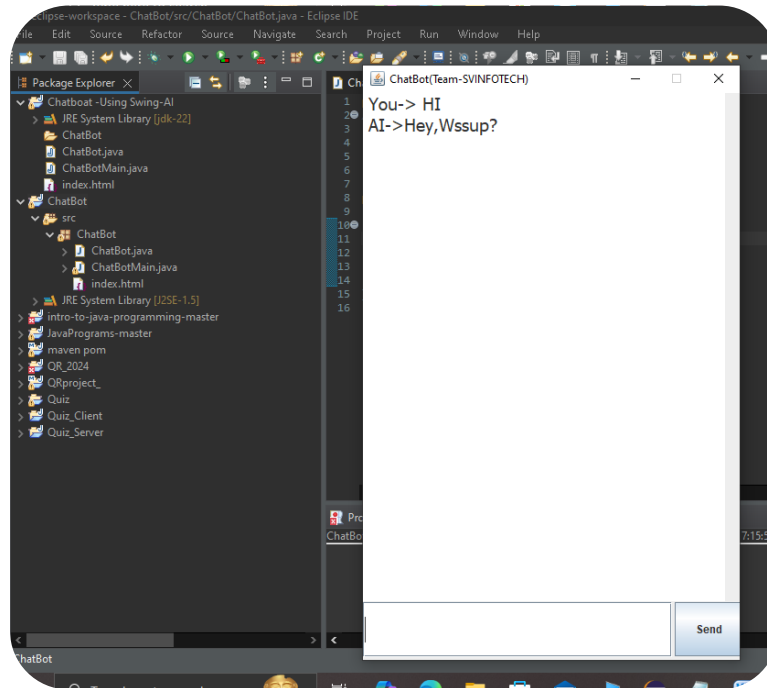


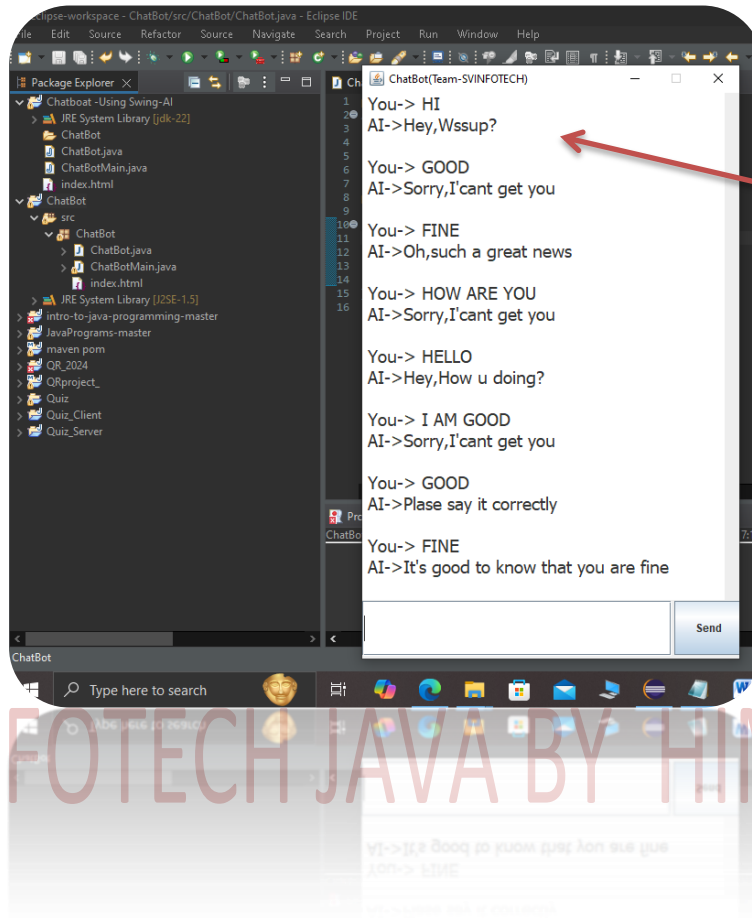
CORE JAVA GUI(SWING) Based ChatBot



SVINFOTECH JAVA BY HIMANSHU

A chatbot is a computer program that simulates human conversation with an end user(**System Generated User**). **Not all chatbots are equipped with artificial intelligence (AI), but modern chatbots increasingly use conversational AI techniques such as natural language processing (NLP) to understand user questions and automate responses to them. Chatbots can be written or spoken**

To understand How ChatBots actually works we hereby designed a simple GUI based java program which takes some tokens as strings and based on Predefined learning we have simulated their Answers



*Chat
based on
predefin
ed
Tokens*

Source code of ChatBot.java:

```
package ChatBot;
/**
 *
 * @author HIMANSHU
 *
 */
public class ChatBot {

    public static void main(String[] args) {
        ChatBotMain obj=new ChatBotMain();
        obj.setTitle("ChatBot(Team-SVINFOTECH)");
        obj.setVisible(true);
    }
}
```

Source code of ChatBotMain.java:

```
package ChatBot;
/**
 *
 * @author HIMANSHU
 *
 */
import java.awt.Adjustable;
import java.awt.BorderLayout;
import java.awt.EventQueue;

import javax.swing.JFrame;
import javax.swing.JPanel;
import javax.swing.border.EmptyBorder;
import javax.swing.JTextField;
import javax.swing.JButton;
import java.awt.Font;
import javax.swing.JEditorPane;
import java.awt.event.ActionListener;
import java.awt.event.ActionEvent;
```

```
import java.awt.event.KeyAdapter;
import java.awt.event.KeyEvent;
import java.util.Random;

import javax.swing.JTextArea;
import javax.swing.JScrollBar;
import java.awt.event AdjustmentListener;
import java.awt.event AdjustmentEvent;

public class ChatBotMain extends JFrame {

    private JPanel contentPane;
    private JTextField textField_1;
    private JButton btnSend;
    private String main="";
    JTextArea textArea;
    private JScrollBar scrollBar;

    /**
     * Launch the application.
     */
    public static void main(String[] args) {
        EventQueue.invokeLater(new Runnable() {
            public void run() {
                try {
                    ChatBotMain frame = new ChatBotMain();
                    frame.setVisible(true);
                } catch (Exception e) {
                    e.printStackTrace();
                }
            }
        });
    }

    /**
     * Create the frame.
     */
    public ChatBotMain() {
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setResizable(false);
        setBounds(100, 100, 428, 657);
        contentPane = new JPanel();
        contentPane.setBorder(new EmptyBorder(5, 5, 5, 5));
        setContentPane(contentPane);
        contentPane.setLayout(null);

        textField_1 = new JTextField();
        textField_1.addKeyListener(new KeyAdapter() {
            @Override
            public void keyPressed(KeyEvent e) {
                if(e.getKeyCode()==KeyEvent.VK_ENTER)
                {
                    action();
                }
            }
        });
    }
}
```

```

    }
}

});
textField_1.setFont(new Font("Tahoma", Font.PLAIN, 23));
textField_1.setBounds(0, 555, 338, 60);
contentPane.add(textField_1);
textField_1.setColumns(10);
btnSend = new JButton("Send");
btnSend.addActionListener(new ActionListener() {
    public void actionPerformed(ActionEvent e) {
        action();
    }
});
btnSend.setBounds(341, 555, 75, 59);
contentPane.add(btnSend);
textArea = new JTextArea();
textArea.setFont(new Font("Tahoma", Font.PLAIN, 19));
textArea.setEditable(false);
textArea.setBounds(0, 0, 396, 554);
contentPane.add(textArea);

/*    scrollBar = new JScrollBar();
//    scrollBar.setviescrollBar.addAdjustmentListener(new AdjustmentListener() {
//        public void adjustmentValueChanged(AdjustmentEvent e) {
//        }
//    });
scrollBar.setBounds(395, 0, 27, 554);
contentPane.add(scrollBar, BorderLayout.EAST);

JScrollBar scrollBar = new JScrollBar();
scrollBar.addAdjustmentListener(new AdjustmentListener() {
    public void adjustmentValueChanged(AdjustmentEvent e) {
    }
});
scrollBar.setBounds(395, 0, 21, 554);
contentPane.add(scrollBar);*/

}

void action()
{
    String query=textField_1.getText();
    textArea.append(" You-> "+query+"\n");
    //query.trim();
    query=query.toLowerCase();
    if(query.contains("clear
screen")||query.contains("clr")||query.contains("cls"))
    {
        textArea.setText("");
        textField_1.setText("");
    }
}

```

```
        else
if(query.contains("hi")||query.contains("hey")||query.contains("hola")||query.contains("hello"))
{
    Random rand=new Random();
    int a=rand.nextInt(4);
    if(a==0)
    {
        ai("Hey,I'm Here");
    }
    else if(a==1)
    {
        ai("Hey,Wssup?");
    }
    else if(a==2)
    {
        ai("Hey,How u doing?");
    }
    else if(a==3)
    {
        ai("Hello,u there?");
    }
    else if(a==4)
    {
        ai("Hello,How u doing?");
    }
}
else if(query.contains("fine")||query.contains("I'm fine")||query.contains("am okay"))
{
    Random rand=new Random();
    int a=rand.nextInt(4);
    if(a==0)
    {
        ai("It's good to know that you are fine");
    }
    else if(a==1)
    {
        ai("It's pleasure to know that you are fine");
    }
    else if(a==2)
    {
        ai("Oh,great");
    }
    else if(a==3)
    {
        ai("Oh,such a great news");
    }
    else if(a==4)
    {
        ai("Wish,you always remain fine");
    }
}
```

```
        else if(query.contains("wssup")||query.contains("whats  
up")||query.contains("whatsapp")||query.contains("wtsup")  
                ||query.contains("you doing")||query.contains("u doing"))  
        {  
            ai("I'm fine and what about you");  
        }  
        else  
if(query.contains("yes")||query.contains("yeah")||query.contains("ya"))  
        {  
            Random rand=new Random();  
            int a=rand.nextInt(2);  
            if(a==0)  
            {  
                ai("Oh, Great");  
            }  
            else if(a==1)  
            {  
                ai("Ohh,Great news");  
            }  
            else if(a==2)  
            {  
                ai("Nice");  
            }  
        }  
        else if(query.contains("ntnhng")||query.contains("nothing"))  
        {  
            Random rand=new Random();  
            int a=rand.nextInt(2);  
            if(a==0)  
            {  
                ai("Why?");  
            }  
            else if(a==1)  
            {  
                ai("Why? as per I know you are a very charming person");  
            }  
            else if(a==2)  
            {  
                ai("Why? Don't waste your time this way");  
            }  
        }  
        else{  
            Random rand=new Random();  
            int a=rand.nextInt(4);  
            if(a==0)  
            {  
                ai("Sorry,I'cant get you");  
            }  
            else if(a==1)  
            {  
                ai("Plase say it correctly");  
            }  
            else if(a==2)  
            {  
                ai("Please rephrase that");  
            }  
        }  
    }  
}
```

```
        }
        else if(a==3)
        {
            ai("???");
        }
    }
}

void ai(String s)
{
    textArea.append(" AI->" + s + "\n\n");
    textField_1.setText("");
}
}
```

How to RUN this project on Eclipse:

1. Define project structure

2. Define Two User Defined classes

ChatBot.java (main class file)

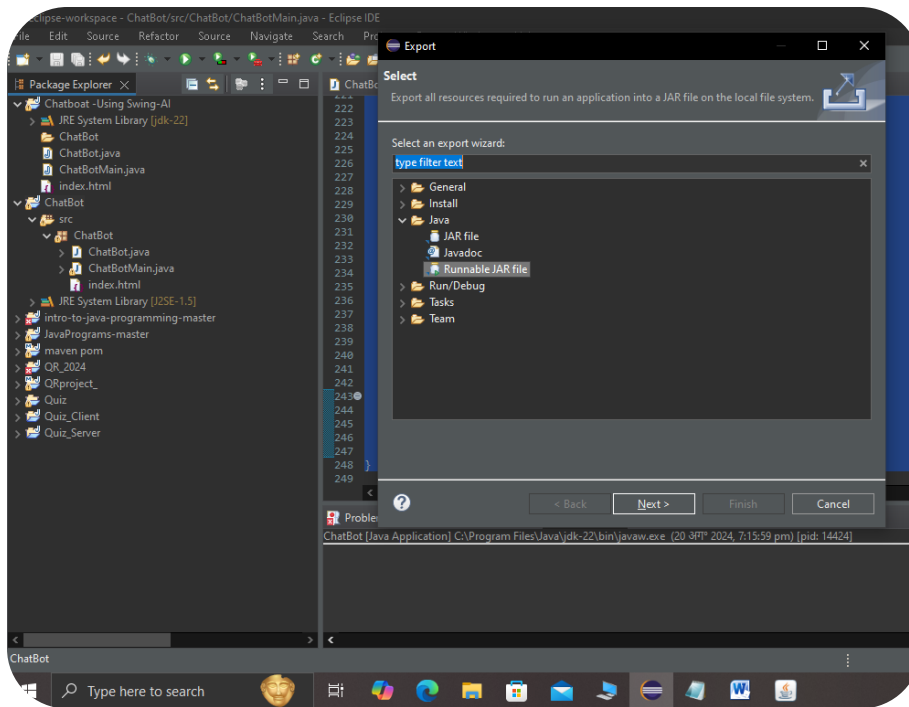
ChatBotMain.java (code definition file)

3. press ALT+SHIFT+X for the main class file.

GUI will be executed.

4. How to make Jar File

Right click on project under project structure >>Export>>
Runnable Jar file.



SVINFOTECH JAVA BY HIMANSHU

TOKENS are defined in action class:

```
void action()
{
    String query=textField_1.getText();
    textArea.append(" You-> "+query+"\n");
    //query.trim();
    query=query.toLowerCase();
    if(query.contains("clear
screen")||query.contains("clr")||query.contains("cls"))
    {
        textArea.setText("");
        textField_1.setText("");
    }
    else
    if(query.contains("hi")||query.contains("hey")||query.contains("hola")||query.contains("hello"))
    {
        Random rand=new Random();
        int a=rand.nextInt(4);
        if(a==0)
        {
            ai("Hey,I'm Here");
        }
        else if(a==1)
        {
            ai("Hey,Wssup?");
        }
        else if(a==2)
        {
            ai("Hey,How u doing?");
        }
        else if(a==3)
        {
            ai("Hello,u there?");
        }
        else if(a==4)
        {
            ai("Hello,How u doing?");
        }
    }
    else if(query.contains("fine")||query.contains("I'm
fine")||query.contains(" I am okay"))
    {
        Random rand=new Random();
        int a=rand.nextInt(4);
        if(a==0)
        {
            ai("It's good to know that you are fine");
        }
        else if(a==1)
        {

```

TOKENS in the
form of hi hello
hola Namaste.

```
        ai("It's pleasure to know that you are fine");
    }
    else if(a==2)
    {
        ai("Oh,great");
    }
    else if(a==3)
    {
        ai("Oh,such a great news");
    }
    else if(a==4)
    {
        ai("Wish,you always remain fine");
    }
}
else if(query.contains("wssup")||query.contains("whats
up")||query.contains("whatsup")||query.contains("wtsup")
||query.contains("you doing")||query.contains("u doing"))
{
    ai("I'm fine and what about you");
}
else
if(query.contains("yes")||query.contains("yeah")||query.contains("ya"))
{
    Random rand=new Random();
    int a=rand.nextInt(2);
    if(a==0)
    {
        ai("Oh, Great");
    }
    else if(a==1)
    {
        ai("Ohh,Great news");
    }
    else if(a==2)
    {
        ai("Nice");
    }
}
else if(query.contains("ntnhng")||query.contains("nothing"))
{
    Random rand=new Random();
    int a=rand.nextInt(2);
    if(a==0)
    {
        ai("Why?");
    }
    else if(a==1)
    {
        ai("Why? as per I know you are a very charming person");
    }
    else if(a==2)
    {
        ai("Why? Don't waste your time this way");
    }
}
```

```
    }
    else{
        Random rand=new Random();
        int a=rand.nextInt(4);
        if(a==0)
        {
            ai("Sorry,I'cant get you");
        }
        else if(a==1)
        {
            ai("Plase say it correctly");
        }
        else if(a==2)
        {
            ai("Please rephrase that");
        }
        else if(a==3)
        {
            ai("???");
        }
    }
}

void ai(String s)
{
    textArea.append(" AI->" +s+"\n\n");
    textField_1.setText("");
}
}
```