1] Demonstrate

A] Flow Layout

import java.awt.\*;

public class FlowLayoutDemo extends Frame

{

FlowLayoutDemo()

{

setLayout(new FlowLayout());

Button b1 =new Button("Button 1");

add(b1);

}

public static void main(String[] args)

{

FlowLayoutDemo f=new FlowLayoutDemo();

f.setVisible(true);

f.setSize(300,300);

}

}

B] Grid Layout

import java.awt.\*;

public class GridLayoutDemo extends Frame

{

GridLayoutDemo()

{

setLayout(new GridLayout());

Button b1 =new Button("Button 1");

Button b2 =new Button("Button 2");

Button b3 =new Button("Button 3");

Button b4 =new Button("Button 4");

add(b1);

add(b2);

add(b3);

add(b4);

}

public static void main(String[] args)

{

GridLayoutDemo g=new GridLayoutDemo();

g.setVisible(true);

g.setSize(300,300);

}

}

C] Border Layout

import java.awt.\*;

public class BorderDemo extends Frame

{

BorderDemo()

{

setLayout(new BorderLayout());

Button b1=new Button("Button 1");

Button b2=new Button("Button 2");

Button b3=new Button("Button 3");

Button b4=new Button("Button 4");

Button b5=new Button("Button 5");

add(b1,BorderLayout.NORTH);

add(b2,BorderLayout.SOUTH);

add(b3,BorderLayout.EAST);

add(b4,BorderLayout.WEST);

add(b5,BorderLayout.CENTER);

}

public static void main(String[] args)

{

BorderDemo b=new BorderDemo();

b.setVisible(true);

b.setSize(500,500);

}

}

D] Card Layout

2] Create a form(awt) using TextField,TextArea,Choice,List,Button,Checkbox,CheckboxGroup etc

import java.awt.\*;

public class FormDemo extends Frame

{

FormDemo()

{

setLayout(new FlowLayout());

Label l1 = new Label("name :-");

add(l1);

TextField t1 = new TextField(10);

add(t1);

Label l2 = new Label("address:-");

add(l2);

TextArea t2 = new TextArea(20,20);

add(t2);

Label l3 = new Label("Year:-");

add(l3);

Choice c = new Choice();

c.add("FY");

c.add("SY");

c.add("TY");

add(c);

Label l4 = new Label("subject:-");

add(l4);

List l = new List();

l.add("java");

l.add("acn");

l.add("ste");

add(l);

Label l5 = new Label("Facilities:-");

add(l5);

Checkbox ch = new Checkbox("Library");

Checkbox ch1 = new Checkbox("Sport");

add(ch);

add(ch1);

Label l6 = new Label("Gender:-");

add(l6);

CheckboxGroup cbg = new CheckboxGroup();

Checkbox ch3 = new Checkbox("male",cbg,true);

Checkbox ch4 = new Checkbox("female",cbg,false);

add(ch3);

add(ch4);

Button b1 = new Button("Submit");

add(b1);

}

public static void main(String[] args)

{

FormDemo f = new FormDemo();

f.setVisible(true);

f.setSize(500,500);

}

}

3] Create a form(Swing) using JTextField,JTextArea,JComboBox,JList,JButton,JCheckbox,JRadioButton

import java.awt.\*;

import javax.swing.\*;

public class FormDemo extends Frame

{

FormDemo()

{

setLayout(new FlowLayout());

JLabel l1 = new JLabel("name :-");

add(l1);

JTextField t1 = new JTextField(10);

add(t1);

JLabel l2 = new JLabel("address:-");

add(l2);

JTextArea t2 = new JTextArea(20,20);

add(t2);

JLabel l3 = new JLabel("Year:-");

add(l3);

JComboBox c = new JComboBox();

c.addItem("FY");

c.addItem("SY");

c.addItem("TY");

add(c);

JLabel l4 = new JLabel("subject:-");

add(l4);

String[] subjects = {"Java", "ACN", "STE"};

JList<String> l = new JList<>(subjects);

add(l);

JLabel l5 = new JLabel("Facilities:-");

add(l5);

JCheckBox ch = new JCheckBox("Library");

JCheckBox ch1 = new JCheckBox("Sport");

add(ch);

add(ch1);

JLabel l6 = new JLabel("Gender:-");

add(l6);

JRadioButton r = new JRadioButton("male",true);

JRadioButton r1 = new JRadioButton("female",false);

add(r);

add(r1);

JButton b1 = new JButton("Submit");

add(b1);

}

public static void main(String[] args)

{

FormDemo f = new FormDemo();

f.setVisible(true);

f.setSize(500,500);

}

}

4] Demonstrate

A] TabbedPane

import java.applet.\*;

import java.awt.\*;

import javax.swing.\*;

public class TabDemo extends JApplet {

public void init() {

Container cp = getContentPane();

JTabbedPane jtp = new JTabbedPane();

jtp.addTab ("Flowers", new Pan1());

jtp.addTab ("Fruits", new Pan2());

cp.add(jtp);

} }

class Pan1 extends Panel{

Pan1() {

setLayout(new FlowLayout());

JComboBox jc = new JComboBox();

jc.addItem("Lotus");

jc.addItem("Rose");

add(jc);

} }

class Pan2 extends Panel{

Pan2() {

setLayout(new FlowLayout());

JCheckBox C1 = new JCheckBox("Mango");

JCheckBox C2 = new JCheckBox("Apple");

add(C1);

add(C2);

}

}

/\*

<applet code = TabDemo.class width=500 height=500></applet>

\*/

B] ScrollPane

import java.awt.\*;

import javax.swing.\*;

import java.applet.\*;

public class ScrollDemo extends JApplet

{

public void init()

{

setLayout(new FlowLayout());

JTextArea t = new JTextArea(20,20);

t.setText("this s scroll pane and program is created by chaitanya");

JScrollPane js = new JScrollPane(t);

add(js);

}

}

/\*

<applet code= ScrollDemo.class width=500 height=500></applet>

\*/

C] JTree

import javax.swing.\*;

import javax.swing.tree.\*;

import java.awt.\*;

public class TreeDemo extends JFrame

{

TreeDemo()

{

Container cp = getContentPane();

cp.setLayout(new BorderLayout());

DefaultMutableTreeNode a = new DefaultMutableTreeNode("first");

DefaultMutableTreeNode b = new DefaultMutableTreeNode("second");

DefaultMutableTreeNode c = new DefaultMutableTreeNode("third");

a.add(b);

a.add(c);

JTree t = new JTree(a);

cp.add(t,BorderLayout.WEST);

}

public static void main(String[] args)

{

TreeDemo x =new TreeDemo();

x.setSize(300,300);

x.setVisible(true);

}

}

D] JTable

import javax.swing.\*;

import javax.swing.JTable.\*;

import java.awt.\*;

public class TableDemo extends JFrame

{

TableDemo()

{

Container cp = getContentPane();

cp.setLayout(new FlowLayout());

String[] column={"name","roll no"};

Object[][] data ={ {"chaitanya","220325"},{"krushna","220321"},{"harsh","220340"}};

JTable t = new JTable(data,column);

cp.add(t);

}

public static void main(String[] args)

{

TableDemo x =new TableDemo();

x.setSize(300,300);

x.setVisible(true);

}

}

5] WAP to demonstrate:

A] ActionListener

B] MouseListener

C]MouseMotionLister

D]KeyListener

E]temListener

F]WindowListener

6] WAP for Factory methods of InetAdrress Class

import java.net.\*;

public class InetDemo2

{

public static void main(String args[])throws UnknownHostException

{

System.out.println("IP address of Local Machine is:"+InetAddress.getLocalHost());

System.out.println("Ip address of Google is:"+InetAddress.getByName("Google.com"));

InetAddress[] i=InetAddress.getAllByName("Yahoo.com");

for(InetAddress inet:i)

{

System.out.println("IP address:"+inet.getHostAddress());

}

}

}

7] WAP for Chatting application : UDP & TCP

Client :-

import java.io.\*;

import java.net.\*;

public class Client {

public static void main(String args[]) throws IOException{

Socket s = new Socket("localhost", 6666);

DataInputStream din = new DataInputStream(s.getInputStream());

DataOutputStream dout = new DataOutputStream(s.getOutputStream());

BufferedReader br = new BufferedReader(new InputStreamReader(System.in));

String s1= " ", s2= " ";

while(!s1.equals("Stop")) {

s1 = br.readLine();

dout.writeUTF(s1);

dout.flush();

s2= din.readUTF();

System.out.println("chaituu Says: "+s2);

}

dout.close();

s.close();

}

}

Server :-

import java.net.\*;

import java.io.\*;

public class Server

{

public static void main(String args[])throws Exception

{

ServerSocket ss=new ServerSocket(6666);

Socket s=ss.accept();

DataInputStream din=new DataInputStream(s.getInputStream());

DataOutputStream dout=new DataOutputStream(s.getOutputStream());

BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

System.out.println("Waiting for friends request...........");

String s1=" ",s2=" ";

while(!s1.equals("stop"))

{

s2=din.readUTF();

System.out.println("Aditya Says : "+s2);

s1=br.readLine();

dout.writeUTF(s1);

dout.flush();

}

dout.close();

s.close();

}

}

8] WAP To demonstrate URL class

import java.net.\*;

public class URLDemo

{

public static void main(String args[])throws Exception

{

URL obj=new URL("http://www.msbte.org.in");

System.out.println("The host name is:"+obj.getHost());

System.out.println("The protocol is:"+obj.getProtocol());

System.out.println("The Port Number is:"+obj.getPort());

System.out.println("the file is:"+obj.getFile());

}

}

9] WAP to create/insert/delete/update data from database using java

import java.sql.\*;

public class DatabaseDemo

{

public static void main(String[] args) throws Exception

{

Class.forName("com.mysql.cj.jdbc.Driver");

System.out.println("Drivers loaded");

Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/Database1","root","root");

System.out.println("Connection established");

Statement s1 =con.createStatement();

s1.execute("create table Table1(id int(10),name varchar(10))");

System.out.println("Table created");

Statement s2 = con.createStatement();

s2.executeUpdate("insert into table1 values(1,'chaitanya'),(2,'krushna'),(3,'harsh')");

System.out.println("values inserted");

Statement s3 = con.createStatement();

ResultSet rs=s3.executeQuery("select \* from table1");

while(rs.next()){

System.out.println("Id:-"+rs.getInt(1)+"|"+ "Name:-"+rs.getString(2));

}

Statement s4 = con.createStatement();

s4.executeUpdate("update table1 set name='Manthan' where name='harsh'");

System.out.println("table Updated");

Statement s5 = con.createStatement();

s5.executeUpdate("delete from table1 where name='krushna'");

System.out.println("row deleted");

ResultSet rs1 = s5.executeQuery("select \* from table1");

while(rs1.next()){

System.out.println("id:-" + rs1.getInt(1) +"|" + "name:- "+ rs1.getString(2));

}

}

}

10] Create a servlet to take input from user and display hello username on browser

11] Create a servlet to display “WELCOME TO MSBTE” on browser