



Practical Lab Report

Faculty of Engineering and Technology

Department of Information and Communication Engineering

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INDEX

SL. NO	Experiment Name	Page
01	Write a Java program to load and display multiple images into a swing container.	
02	Suppose a restaurant sells Pizza for \$100, Burgers for \$30, and Tea for \$10. Write a Java program for generating restaurant bills after ordering from a customer.	
03	Write a Java Program to create a student registration form for ICE department including the fields "Name", "Roll", and "Department" in GUI.	
04	Write a Java Program in GUI to develop a simple calculator that can calculate addition, subtraction, division, and multiplication operations.	
05	Suppose multiple threads try to access the same resources and finally produce erroneous and unforeseen results. Write a java program to solve this problem using object or method synchronization.	
06	Write a client-server TCP socket program in java that the server listens for connection requests, and whatever message the client sends, the server converts it to uppercase and sends it back.	
07	Write a client-server UDP socket program in java that the server listens for connection requests, and whatever message within 1024 bytes the client sends, the server converts it to uppercase and sends it back after 6 ms.	
08	<p>Suppose we have an MS Access database named ICE_PUST which has a table named by Student with field (Name, Email, and Phone). Using this database answer the following questions:</p> <ul style="list-style-type: none"> a. Write down a java program to insert data into the Student table of the ICE_PUST database. b. Create a java program to print all student records from the Student table of the ICE_PUST database. 	
09	<p>Consider an MS access database named Lab_18 which has a table named by Teacher with field (Name, Email, and Phone). Using this database give the answer of the following questions:</p> <ul style="list-style-type: none"> a. Write down a java program to create a GUI registration form according to the Teacher table. b. Create a java program to insert data into the Teacher table of the Lab_18 database from the GUI registration form which you have already created 	

Experiment no: 02

Name of the Experiment: write a java program to load and display multiple images into a swing container.

Theory:

Java swing is a part of Java foundation classes that is used to create window-based application. It is built on the top of AWT (Abstract Window Toolkit) API and entirely written in Java.

Unlike AWT, Java swing provides ~~standard~~ platform-independent and light weight components.

The `javax.swing` package provides classes for Java swing API such as `JButton`, `JTextField`, `JTextArea`, `JRadioButton`, `JCheckBox`, `JMenu`, `JColorChooser` etc.

Java source code:

```

import java.awt.*;
import java.awt.image.*;
import java.io.*;
import javax.swing.*;
import javax.imageio.*;

public class Image extends JFrame
{
    private JLabel label1;
    private JLabel label2;

    ImageIcon image() throws IOException
    {
        setLayout(new FlowLayout());
        File file = new File("D:\\network\\ICE-logo.jpg");

        BufferedImage image1 = ImageIO.read(file);
        ImageIcon ImageIcon1 = new ImageIcon(image1);
        label1 = new JLabel(ImageIcon1);
        add(label1);

        File file2 = new File("D:\\network\\Pust-logo.jpg");
        BufferedImage image2 = ImageIO.read(file2);
        ImageIcon ImageIcon2 = new ImageIcon(image2);
        label2 = new JLabel(ImageIcon2);
        add(label2);
    }
}

```

```
public static void main( String[] args ) throws IOException  
{  
    Image qui = new Image();  
    qui.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
    qui.setVisible(true);  
    qui.setSize(500, 500);  
    qui.setTitle("Image Program");  
}  
}
```

Experiment no: 02

Name of the experiment: Suppose a restaurant sells pizza for \$100, Burgers for \$30 and Tea for \$20. write a Java program for generating restaurant bills after ordering from a customer.

Source code:

```

import javax.swing.*;
public class BillGeneration extends JFrame implements ActionListener
{
    JLabel L;
    JCheckBox cb1, cb2, cb3;
    JButton b;
    BillGeneration()
    {
        L = new JLabel("Food ordering system");
        L.setBounds(50, 50, 300, 20);
        cb1 = new JCheckBox("pizza @ 100");
        cb1.setBounds(100, 100, 150, 20);
        cb2 = new JCheckBox("Burger @ 30");
        cb2.setBounds(100, 100, 150, 20);
    }
}

```

```

cb3 = new checkbox ("Tea @ 10");
cb3.setBounds(100, 200, 150, 20);

b = new JButton ("Order");
b.setBounds(100, 200, 150, 20);
b.addActionListener (this);

add(l1); add(cb1); add(cb2); add(cb3); add(b);
setSize(400,400);

setLayout(null);
setVisible(true);
setDefaultCloseOperation (EXIT_ON_CLOSE);
}

```

public void actionPerformed (ActionEvent e)

```

{
    float amount=0;
    String msg="";
    if (cb2.isSelected())
    {
        amount += 100;
        msg = "pizza : 100\n";
    }
}
```

```

if (cb2.isSelected())
{
    amount += 30;
    msg += "Tea : 10\n";
}
msg += "-----\n";
JOptionPane.showMessageDialog(this, msg + "Total : " + amount);
}

public static void main(String[] args)
{
    new BillGeneration();
}

}

```

Input:

Food Ordering System

Pizza @100

Burger @ 30

Tea @10

Order

Output:

Message

pizza : 100

Burger : 30

Total 130.0

[OK]

Experiment no: 03

Name of the experiment: write a Java program to create a Student registration form for IOE department including the fields "Name", "Roll" and "Department" in GUI.

Theory: GUI represents for Graphical User Interface. It actually represents what we see on our desktop which interacts with the user using a graphical interface.

Using GUI make it easy for the user to use the feature of an application.

In Java we can create our own desktop application using two GUI APIs that is AWT and swing.

Program:

```
import java.awt.event.ActionEvent;
public class form implements ActionListener
{
    private static JLabel success;
    private static JFrame frame;
```

```
private static JLabel label1, label2, label3;  
private static JPanel panel;  
private static JButton button;  
private static JTextField userText1, userText2, userText3;  
public static void main(String[] args)  
{  
    frame = new JFrame();  
    panel = new JPanel();  
    frame.setSize(400, 800);  
    frame.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);  
    frame.add(panel);  
    panel.setLayout(null);  
    label1 = new JLabel("Name");  
    label1.setBounds(10, 10, 80, 25);  
    panel.add(label1);  
    label2 = new JLabel("Roll");  
    label2.setBounds(10, 60, 80, 25);  
    panel.add(label2);  
    label3 = new JLabel("Department");  
    label3.setBounds(100, 110, 80, 25);  
}
```

```
UserText1 = new JTextField ("Enter your roll");  
UserText1. setBounds(100, 10, 200, 25);  
Panel.add(UserText1);
```

```
JTextField UserText2= new JTextField("Enter your roll");  
UserText2. setBounds (100, 60, 200, 25);  
Panel.add (UserText2);
```

```
JTextField UserText3= new JTextField("Enter your department");  
UserText3. setBounds(100,110,200,25);  
Panel.add (UserText3);
```

```
button= new JButton ("Save");  
button. setBounds(150, 160, 80, 25);  
button. addActionListener (new Form());  
Panel.add(button);
```

```
success= new JLabel ("Not Submit Yet");  
Success. setBounds (130, 210, 300, 25);  
Panel.add (success);
```

```

frame.setVisible(true);
}

public void actionPerformed(ActionEvent e)
{
    success.setText("Saved successfully");
}
}

```

Input:

Name

Roll

Department

Not submitted yet

Output:

Name

Roll

Department

Saved successfully

Experiment no: 04

Name of the experiment: write a Java program in GUI to develop a simple calculator that can calculate addition, subtraction, division and multiplication operations.

Program:

```

import java.awt.*;
public class Calculator calculator extends JFrame implements
ActionListener
{
    JButton b10,b11,b12,b13,b14,b15;
    JButton b[] = new JButton[10];
    int i,r,m,n2;
    JTextField res;
    char op;
    public calculator()
    {
        super("calculator");
        setLayout(new BorderLayout());
        JPanel p = new JPanel();
    }
}

```

```

p.setLayout (new GridLayout(4,4));

for (int i=0 ; i<=9 ; i++)
{
    b[i] = new JButton(i + " ");
    p.add (b[i]);
    b[i].addActionListener (this);
}

b10 = new JButton("+");
p.add(b10);
b10.addActionListener (this);

b11 = new JButton("-");
p.add (b11);
b11.addActionListener (this);

b12 = new JButton("*");
p.add(b12);
b12.addActionListener (this);

b13 = new JButton("/");
p.add (b13);
b13.addActionListener (this);

b14 = new JButton("=");

```

```

p.add(b74);
b74.addActionListener(this);

b75 = new JButton("C");
p.add(b75);
b75.addActionListener(this);

res = new JTextField(10);
add(p, BorderLayout.CENTER);
add(res, BorderLayout.NORTH);
setVisible(true);
setSize(200,200);
}

public void actionPerformed(ActionEvent ae)
{
    JButton pb = (JButton) ae.getSource();
    if (pb == b75)
    {
        r = n1 = n2 = 0;
        res.setText("0");
    }
}

```

```

else if (pb == b14)
{
    n2 = Integer.parseInt(res.getText());
    eval();
    res.setText(" " + r);
}

else
{
    boolean opf = false;
    if (pb == b10)
    {
        op = '+';
        opf = true;
    }

    if (pb == b11)
    {
        op = '-';
        opf = true;
    }

    if (pb == b12)
    {
        op = '*';
        opf = true;
    }

    if (pb == b11)
    {
        op = '/';
        opf = true;
    }
}

```

```

if (pb == b12)
{
    op = '*';
    opf = true;
}

if (pb == b13)
{
    op = '/';
    opf = true;
}

if (pb == false)
{
    for (i=0; i<10; i++)
    {
        if (pb == b[i])
        {
            string t = res.getText();
            t += i;
            res.setText(t);
        }
    }
}

else
{
    n2 = Integer.parseInt(res.getText());
    res.setText("4");
}

```

```
}

}

}

int eval()
{
    switch(op)
    {
        case '+': r=n1+n2; break;
        case '-': r=n1-n2; break;
        case '*': r=n1*n2; break;
        case '/': r=n1/n2; break;
    }
    return r;
}

public static void main (String args[])
{
    new Calculator();
}
```

Output:

$1+2=3$			
0	1	2	3
4	5	6	7
8	9	+	-
*	/	=	c

Experiment no: 05

Name of the experiment: Suppose if multiple threads try to access the same resources and finally produce erroneous and unforeseen results. Write a Java program to solve this problem using object or method synchronization.

Theory:

A thread is similar to a program that has a single flow of control. On the other hand, threads are independent processes that can be run simultaneously. It has

- i) A beginning
- ii) A body and an end
- iii) Executes command sequentially.

Java enable us to use multiple flows of control in developing programs. Each flow of control may be thought of as separate tiny program known as thread that runs parallel. A program that contains multiple flows of control is known as a multiple threaded program.

Source code:

```

class callme
{
    void call(String msg)
    {
        System.out.println("[" + msg);
        try
        {
            Thread.sleep(1000);
        } catch(InterruptedException e)
        {
            System.out.println("Interrupted");
            System.out.println("]");
        }
    }
}

```

class caller implements runnable

```

{
    String msg;
    callme target;
    Thread t;
    public caller(callme targ, String s)
    {
        target = targ;
        msg = s;
    }
}

```

```
t = new Thread (this);
t.start();
```

public void run()

```
{
    target.call(msg);
}
```

}

```
class synch
{
    public static void main(String args[])
    {
        callme target = new callme();
        caller obj = new caller(target, "Hello");
        caller obj2 = new caller(target, "synchronized");
        caller obj3 = new caller(target, "world");

        try
        {
            obj.t.join();
            obj2.t.join();
            obj3.t.join();
        } catch(InterruptedException e){}
    }
}
```

```
System.out.println("Interrupted");  
}  
}  
}
```

Output:

[synchronized [world [Hello]]

]

]

Experiment no: 06

Name of the experiment: write a client-server TCP socket

program in java that the server listens for connection requests and whatever message the client sends, the server converts it to uppercase and sends it back.

Theory:

Client: Initiates connection

- Retrieve data
- Displays data
- Responds to user input
- Requests more data

Examples of clients are

- Web Browser
- Chat program
- PC accessing files

Server: Responds to connection

- Receives request for data
- Looks it up
- Delivers it

Examples of server:

- Web Server
- Database Server
- Domain Name Server

TCP: The full form of TCP is Transmission Control protocol. TCP is a connection-based protocol. It provides a reliable flow of data between two computers.

Source code:

Server:

```
import java.net.*;
```

```
public class Server
```

```
{
```

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

```
{
```

```
    ServerSocket s = new ServerSocket(2992);
```

```

System.out.println("Waiting");
Socket s2 = s.accept();
InputStream s2In = s2.getInputStream();
DataInputStream dis = new DataInputStream(s2In);
String st = new String(dis.readUTF());
System.out.println(st);

OutputStream s2out = s2.getOutputStream();
DataOutputStream dos = new DataOutputStream(s2.getOutputStream());
dos.writeUTF(st.toUpperCase());
dos.close();
s2out.close();
s2.close();
}
}

```

Output :

Waiting

Client:

```

import java.net.*;
public class Client {
    public static void main(String args[]) throws IOException {
        Socket s = new Socket("localhost", 2002);
        OutputStream sout = s.getOutputStream();
        DataOutputStream dos = new DataOutputStream(sout);
        System.out.println("Write your message");
        Scanner sc = new Scanner(System.in);
        String msg = sc.nextLine();
        dos.writeUTF(msg);

        InputStream sIn = s.getInputStream();
        DataInputStream dis = new DataInputStream(sIn);
        String st = new String(dis.readUTF());
        System.out.println("Output");
        System.out.println(st);
        s.close();
    }
}

```

Output:

Write your message: welcome to ICE

Output WELCOME TO ICE

Experiment no: 07

Name of the Experiment: write a client-server UDP socket program in Java what the server listens for connection requests, and whatever message within 1024 bytes the client sends, the server converts it to uppercase and sends it back after 6 ms.

Theory:

UDP stands for User Datagram protocol. A protocol that sends independent packets of data called datagram, from one computer to another. In UDP, the arrival of datagrams is not guaranteed. UDP is not connection-based like TCP.

Source code:UDP Server:

```
import java.io.*;
public class UDPServer
{
    public static void main(String args[])
    {
        DatagramSocket serversocket=new DatagramSocket(9876);
```

```

byte[] receiveData = new byte[1024];

byte[] sendData = new byte[1024];

while(true)
{
    DatagramPacket receivePacket = new DatagramPacket(receiveData,
        receiveData.length);

    System.out.println("Waiting.....");

    serverSocket.receive(receivePacket);

    System.out.println("Data received.....");

    String sentence = new String(receivePacket.getData());

    System.out.println("RECEIVED" + sentence);

    Thread.sleep(8000);

    InetAddress IPAddress = receivePacket.getAddress();

    int port = receivePacket.getPort();

    String capitalizedSentence = sentence.toUpperCase();

    sendData = capitalizedSentence.getBytes();

    DatagramPacket sendPacket = new DatagramPacket

        (sendData, sendData.length, IPAddress, port);

    serverSocket.send(sendPacket);
}
}

```

Output:

waiting...

UDP Client:

```

import java.io.*;
public class UDPclient
{
    public static void main(String args[]) throws Exception
    {
        System.out.println("write something");
        BufferedReader inFromUser = new BufferedReader(
            new InputStreamReader(System.in));
        DatagramSocket clientSocket = new DatagramSocket();
        InetAddress IPAddress = InetAddress.getByName("localhost");
        byte[] sendData = new byte[1024];
        byte[] receiveData = new byte[1024];
        String sentence = inFromUser.readLine();
        sendData = sentence.getBytes();
        DatagramPacket sendPacket = new DatagramPacket(
            sendData, sendData.length, IPAddress, 9876);
        clientSocket.send(sendPacket);
    }
}

```

```
DatagramPacket receivePacket = new DatagramPacket (receiveData,  
    receiveData.length);  
  
System.out.println ("waiting...");  
  
clientSocket.receive (receivePacket);  
  
System.out.println ("Data Received --- ");  
  
String modifiedSentence = new String (receivePacket.getData());  
  
System.out.println ("FROM SERVER : " + modifiedSentence);  
  
clientSocket.close();  
  
}  
}
```

Output :

write something

welcome to ice

waiting...

Data Received ---

FROM SERVER : WELCOME TO ICE

Experiment no: 08

Name of the experiment: Suppose we have an MS access database named ICE-PUST which has a table named by student with field (Name, Email and phone). Using this database answer the following question:

- Write down a Java program to insert data into the Student table of the ICE-PUST database.

Theory:

Java Data Base Connectivity is the standard interface for communication between a Java application and SQL database. It allows a Java program to issue SQL statements and process the results.

JDBC helps the programmers to write Java applications that manage those programming activities.

1) It helps us to connect to a data source like a database.

2) It helps us in sending queries and updating statements to the database.

3. Retrieving and processing the results received from the database in terms of answering our query.

Source code:

```

import java.sql.*;
public class Java-Sql-db-insert-data
{
    public static void main( String[] args )
    {
        try
        {
            Class.forName("net.ucanaccess.jdbc.Ucanaccess
Driver");
            Connection connection = DriverManager.getConnection
("jdbc:ucanaccess://D:\\");
            System.out.println("Connected Successfully");
            PreparedStatement preparedStatement = connection.
                prepareStatement(" " + "INSERT
INTO practice(name, Email, phone) VALUES(?,?)");
            preparedStatement.setString(1, "Rabbi");
            preparedStatement.setString(2, "Rabbi.ru@gmail.com");
        }
    }
}

```

```
preparedStatement.setString(3, "017022633140");  
preparedStatement.executeUpdate();  
System.out.println("data inserted successfully");  
}  
} catch (Exception e)  
{  
    System.out.println("Error in connection");  
}  
}  
}
```

Output:

Connected Successfully
Data inserted successfully

Experiment no: 8(b)

Name of the experiment: Create a Java program to print all student records from the student table of ICE-PUST database.

Source code:

```

import java.sql.*;
public class java-sql-db-show-data
{
    public static void main(String[] args)
    {
        try
        {
            Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");
            Connection connection = DriverManager.getConnection("jdbc:ucanaccess://D:\\Lab18.accdb");
            PreparedStatement preparedStatement = connection.prepareStatement("select * from practice");
            ResultSet resultSet = preparedStatement.executeQuery();
            System.out.println(resultSet);
            System.out.println("Name " + "Email" + "Phone");
        }
    }
}

```

```
System.out.println("name + " +  
while ( resultSet.next() )  
{  
    String name = resultSet.getString("Name");  
    String email = resultSet.getString("Email");  
    String phone = resultSet.getString("Phone");  
    System.out.println(name + " " + email + " " + phone);  
}  
}  
} catch (Exception e)  
{  
    System.out.println("Error in connection");  
}  
}
```

Output:

Connected successfully

Name	Email	Phone
Zalal Ahmed	zalal.yu@gmail.com	01557240628
Sufiq	sofia@gmail.com	01557240628
Rabbi	rabbi.yu@gmail.com	01722633190

Experiment no: 9

Name of the Experiment: Consider an MS access database named

Lab-18 which has a table named by Teacher with field (Name, Email and Phone). Using this database give the answer of this following questions.

a) write down a java program to create a GUI registration form according to Teacher table.

b) Create a java program to insert data into Teacher table of the Lab-18 database from the GUI registration form which you have already created.

Objective: To create a GUI registration form according to

a database table.

Theory:

Loading a JDBC Driver

- A JDBC driver is needed to connect to a database.

- Loading a driver requires the class name of the driver

 - JDBC-ODBC : sun.jdbc.odbc.JdbcOdbcDriver

 - Oracle driver : oracle.jdbc.driver.OracleDriver

 - MySQL : com.mysql.jdbc.Driver

 - msAccess : net.ucanaccess.jdbc.UcanaccessDriver

- Loading the driver class

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

Connecting to a database:

JDBC URL - for a database

- Identifies the database to be connected
- consists of three parts: protocol, sub-protocol, subname
- The DriverManager allows to connect to a database using the specified JDBC driver, database location, database name, username and password.
- It returns a connection object which can then be used to communicate with the database.

Source code:

```
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.*;
import javax.swing.*;

public class Java_SQL_Gui_J_Simple extends JFrame implements ActionListener
```

```

}

uTextField tf1, tf2, tf3;
uLabel l1, l2, l3;
uButton b1, b2, b3, b4;
Connection con;
ResultSet rs;
Statement st;

public javax.sql.gui.I-SimpleU
{
    Super ("PersonDetails");
    setLayout (null);
    Label d = new Label ("Person Details");
    d.setBounds (200, 10, 150, 50);
    d.setBackground (color, RED);
    add (d);
    l1 = new uLabel ("Name");
    l1.setBounds (100, 100, 100, 80);
    add (l1);
    tf1 = new uTextField (" ");
    tf1.setBounds (200, 100, 250, 40);
    l2 = new uLabel ("Email");
    l2.setBounds (100, 150, 200, 50);

```

```
add(l2);  
tf2 = new JTextField();  
tf2.setBounds(200, 150, 250, 40);  
add(tf2);  
l3 = new JLabel("Phone");  
l3.setBounds(100, 200, 100, 50);  
add(l3);  
tf3 = new JTextField();  
tf3.setBounds(200, 200, 250, 40);  
add(tf3);  
b1 = new JButton("Show");  
b1.setBounds(100, 250, 90, 50);  
add(b1);  
b2 = new JButton("Insert");  
b2.setBounds(200, 250, 90, 50);  
add(b2);  
b3 = new JButton("Update");  
b3.setBounds(300, 250, 90, 50);  
add(b3);
```

```

b4 = new JButton("Delete");
b4.setBounds(400, 250, 150, 50);
add(b4);

b2.addActionListener(this);
b2.addActionListener(this);
b3.addActionListener(this);
b4.addActionListener(this);

setSize(600, 600);
setVisible(true);

connection();
}

public void connection()
{
    try
    {
        Class.forName("net.ucanacces.jdbc.UcanaccesDriver");
        con = DriverManager.getConnection("jdbc:ucanacces://D:\\");
        System.out.println("connected successfully");

        st = con.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,
                               ResultSet.CONCUR_UPDATABLE);
    }
}

```

```

rs = st.executeQuery("SELECT * FROM practice");

System.out.println("connect");

} catch (Exception e)
{
    System.out.println(e);
}

}

public void actionPerformed(ActionEvent e)
{
    if (e.getSource() == b2)
    {
        System.out.println("I am show");

        try
        {
            if (rs.next())
            {
                tf1.setText(rs.getString("name"));
                tf2.setText(rs.getString("Email"));
                tf3.setText(rs.getString("Phone"));
            } else
            {
                JOptionPane.showMessageDialog(null, "No data");
            }
        } catch (Exception ex)
        {
        }
    }
}

```

```

    {
}

if (e.getSource() == b2)
{
    System.out.println("I am insert");
    String up1 = tf1.getText();
    String up2 = tf2.getText();
    String up3 = tf3.getText();

    try
    {
        rs.updateString("Name", up1);
        rs.updateString("Email", up2);
        rs.updateString("Phone", up3);
        rs.insertRow();
        System.out.println("one row is inserted");
    }
    catch (Exception e)
    {
    }
}

if (e.getSource() == b3)
{
}

```

```

        system.out.println("I am Updator");

        String up1 = tf1.getText();
        String up2 = tf2.getText();
        String up3 = tf3.getText();

        try {
            rs.updateString("name", up1);
            rs.updateString("Email", up2);
            rs.updateString("phone", up3);
            rs.updateRow();
            system.out.println("One row is updated");
        }
        catch(Exception e)
        {
        }

        if (e.getSource() == bg)
        {
            system.out.println("I am Delete");

            try {
                rs.deleteRow();
                system.out.println("One row is deleted");
            }
            catch (Exception e)
            {
            }
        }
    }
}

```

```

    {
    }
}

}

public static void main(String[] args)
{
    new SQL_Gui_2_Simple();
}

```

Output: Input:

Person Details	
Name	Mitu Kundu
Email	mitukundu005@gmail.com
Phone	01776166857
<input type="button" value="Show"/> <input type="button" value="Insert"/> <input type="button" value="Update"/> <input type="button" value="Delete"/>	

Output:

Connected successfully

Connect

I am Insert

One row is inserted