

JAVA LAB

Expr 1:

Set up Java Programming development environment by using

- i. Command Prompt
- ii. Any IDE like Eclipse, Notepad++, JCreator etc

And Test Java Programming development environment by implementing a small program .

Solution:

setup javaprogramming environment

- 1.Install the JDK from the Oracle website
- 2.Identify the installation location of the JDK.
 - It is usually a sub-folder within this path: C:\Program Files\Java
- 3.Edit the System Environment Variables.
- 4.Create a new variable named as JAVA_HOME, and set the installation location of the JDK as the value
- 5.Edit the PATH variable.
- 6.click "Okay" on all of the Environment Variables to save the new settings.
- 7.Open up Command Prompt
- 8.Verify the Java compiler is recognized
(Type `javac -version`)
- If you see the version of Java printed out, it worked)
- 9.Run a Java program

Program:

```
public class main
{
    public static void main(String[] args)
    {
        System.out.println("Hello World");
    }
}
```

Output: Hello World

Expr 2:

Implementing the Operations of stack using package .

Program:

```
import java.util.*;
public class ArrayStack < E > {

    public static final int CAPACITY = 1000; // default array capacity
    private int topIndex; // index of the top element in stack
    private E[] data; // generic array used for storage

    public ArrayStack() {
        this(CAPACITY);
    } // constructs stack with default capacity

    public ArrayStack(int capacity) { // constructs stack with given capacity
        topIndex = -1;
        data = (E[]) new Object[capacity]; // safe cast; compiler may give warning
    }

    public int size() {
        return (topIndex + 1);
    }

    public boolean empty() {
        return (topIndex == -1);
    }

    public void push(E e) throws IllegalStateException {
        if (size() == data.length) throw new IllegalStateException("Stack is full");
        data[++topIndex] = e; // increment topIndex before storing new item
    }

    public E peek() throws EmptyStackException {
        if (empty()) throw new EmptyStackException();
        return data[topIndex];
    }

    public E pop() throws EmptyStackException {
        if (empty()) throw new EmptyStackException();
        E answer = data[topIndex];
        data[topIndex] = null; // dereference to help garbage collection
        topIndex--;
        return answer;
    }

    public static void main(String args[]) {
        ArrayStack < Integer > mystack = new ArrayStack<>();
        mystack.push(9); //a
        mystack.push(3); //b
        mystack.push(8); //c
    }
}
```

```

        System.out.println("Element at the top is : " + mystack.peek()); //d
        System.out.println("Element removed is : " + mystack.pop()); //e
        System.out.println("The size of the stack is : " + mystack.size()); //f
        System.out.println("Element removed is : " + mystack.pop()); //g
        System.out.println("Element at the top is : " + mystack.peek()); //h
        mystack.push(10); //i
        System.out.println("Stack is empty : " + mystack.empty()); //j
    /*Note: In output charecters of the comments are written to correspond the
    output, they won't be printed.*/
    }
}

```

Output:

```

Element at the top is :8      //d
Element removed is : 8      //e
The size of the stack is : 2  //f
Element removed is : 3      //g
Element at the top is : 9    //h
Stack is empty : false      //j

```

Expr 3:

Implementing the Operations queue using package.

Program:

```

import java.util.*;
public class ArrayQueue < E > {
    private E[] data; // generic array used for storage
    // constructors
    private int frontIndex;
    private int queueSize;

    public ArrayQueue(int capacity) { // constructs queue with given capacity
        data = (E[]) new Object[capacity]; // safe cast; compiler may give warning
        queueSize = 0; // current number of elements
        frontIndex = 0; // index of the front element
    }

    public ArrayQueue() {
        this(1000);
    }
}

```

```

    } // constructs queue with default capacity

    // methods
    /* Returns the number of elements in the queue. */
    public int size() {
        return queueSize;
    }

    /* Tests whether the queue is empty. */
    public boolean isEmpty() {
        return (queueSize == 0);
    }

    /* Inserts an element at the rear of the queue. */
    public void enqueue(E e) throws IllegalStateException {
        if (queueSize == data.length) throw new IllegalStateException("Queue is full");
        int avail = (frontIndex + queueSize) % data.length; // use modular arithmetic
        data[avail] = e;
        queueSize++;
    }

    /* Returns, but does not remove, the first element of the queue (null if empty). */
    public E first() throws IllegalStateException {
        if (queueSize == data.length) throw new IllegalStateException("Queue is empty");
        return data[frontIndex];
    }

    /* Removes and returns the first element of the queue (null if empty). */
    public E dequeue() throws IllegalStateException {
        if (queueSize == data.length) throw new IllegalStateException("Queue is empty");
        E answer = data[frontIndex];
        data[frontIndex] = null; // dereference to help garbage collection
        frontIndex = (frontIndex + 1) % data.length;
        queueSize--;
        return answer;
    }

    public static void main(String[] args) {
        ArrayQueue queue = new ArrayQueue();
        queue.enqueue(18); //a
        System.out.println("Element at front : " + queue.first()); //b
        System.out.println("Element removed from front : " + queue.dequeue()); //c
        System.out.println("Queue is Empty : " + queue.isEmpty()); //d
        queue.enqueue(79); //e
        queue.enqueue(90); //f
        System.out.println("Size of the queue : " + queue.size()); //g
        System.out.println("Element removed from front end : " + queue.dequeue());
        //h
    }
}

```

Output:

Element at front : 18 //b

Element removed from front : 18 //c

Queue is Empty : true //d

Size of the queue : 2 //g

Element removed from front end : 79 //h

Expr 4:

Write a program to implement an object oriented system and multithreaded processes as per needs and specifications.

Program:

```
class RunnableDemo implements Runnable {
    private Thread t;
    private String threadName;

    RunnableDemo( String name) {
        threadName = name;
        System.out.println("Creating " + threadName );
    }

    public void run() {
        System.out.println("Running " + threadName );
        try {
            for(int i = 4; i > 0; i--) {
                System.out.println("Thread: " + threadName + ", " + i);
                // Let the thread sleep for a while.
                Thread.sleep(50);
            }
        } catch (InterruptedException e) {
            System.out.println("Thread " + threadName + "
interrupted.");
        }
        System.out.println("Thread " + threadName + " exiting.");
    }

    public void start () {
        System.out.println("Starting " + threadName );
        if (t == null) {
            t = new Thread (this, threadName);
            t.start ();
        }
    }
}
```

```

}

public class TestThread {

    public static void main(String args[]) {
        RunnableDemo R1 = new RunnableDemo( "Thread-1");
        R1.start();

        RunnableDemo R2 = new RunnableDemo( "Thread-2");
        R2.start();
    }
}

```

Output:

Expr 5:

Write a program to implement thread synchronization concept.

Program:

```

class Pyramid
{
    synchronized void draw_pyramid (char ch)
    {
        for (int i=0; i<10;i+=2)
        {
            for (int k=10-i;k>0;k-=2)
            {
                System.out.print (" ");
            }
            for (int j=0;j<=i;j++)
            {

                System.out.print(ch);
            }
            System.out.println();
        }
    }
}

class A extends Thread
{
    Pyramid p;
    A (Pyramid p)
    {
        this.p=p
    }
    public void run()
    {
        p.draw_pyramid ('*');
    }
}

class B extends Thread

```

```

    {
Pyramid p;
    B(Pyramid p)
    {

this.p=p;
    }
    public void run()
    {

p.draw_pyramid('#');
    }
    }

class SynchTest
{
public static void main(String args[])
{
Pyramid pobj= new Pyramid();
A threadA = new A (pobj);
B threadB = new B (pobj);
threadA.start(); threadB.start();
}
}

```

Output:

Expr 6:

Write a program to implement employee information in a file and perform the operations on it .

Program:

```

public class GFG {

    static String Employee_name;
    static float Employee_salary;

    static void set(String n, float p) {
        Employee_name = n;
        Employee_salary = p;
    }

    static void get() {
        System.out.println("Employee name is: " +Employee_name );
        System.out.println("Employee CTC is: " +
Employee_salary);
    }

    public static void main(String args[]) {

```

```

        GFG.set("Rathod Avinash", 10000.0f);
        GFG.get();
    }
}

```

Output:

```

C:\Users\student\Desktop\Aadi>java GFG
Employee name is: Rathod Avinash
Employee CTC is: 10000.0

```

Expr 7:

Working with shape motion by applet programming.
(demonstrate Traffic Signal)

```

import java.io.*;
import java.lang.*;
import java.awt.*;
import java.awt.event.*;
import java.applet.*;

public class Thread39 extends Applet implements ActionListener,Runnable
{
    Thread t;
    Button b1,b2;
    boolean red,green,yellow;

    public void init()
    {
        t=new Thread(this);
    }

    public void start()
    {
        b1=new Button("START SIGNAL");
        b2=new Button("STOP SIGNAL");

red=true;

        add(b1);
        add(b2);

        setSize(400,400);
        setVisible(true);

        b1.addActionListener(this);
        b2.addActionListener(this);
    }

    public void actionPerformed(ActionEvent ae)
    {
        Object ob=ae.getSource();

```



```

        if(ae.getSource()==b1)
        {
            t.start();
        }
        else
        {
            if(ae.getSource()==b2)
            {
                t.stop();
            }
        }
    }

    public void run()
    {
        try
        {
            while(true)
            {
                if(red==true)
                {
                    red=false;
                    yellow=true;
                    green=false;
                }
                else
                {
                    if(yellow==true)
                    {
                        red=false;
                        yellow=false;
                        green=true;
                    }
                    else
                    {
                        if(green==true)
                        {
                            red=true;
                            yellow=false;
                            green=false;
                        }
                    }
                }
                repaint();
                t.sleep(700);
            }
        }
        catch(Exception e)
        {
            System.out.println("Error from System"
+e);
        }
    }

    public void paint(Graphics g)
    {
        if(red==true)
        {

```

```

        g.setColor(Color.RED);
        g.fillOval(100,100,70,70);
    }
    else
    {
        if(yellow==true)
        {
            g.setColor(Color.YELLOW);
            g.fillOval(100,200,70,70);
        }
        else
        {
            if(green==true)
            {
                g.setColor(Color.GREEN);
                g.fillOval(100,300,70,70);
            }
        }
    }
}

```

Output:

Expr 8:

Write a program to design Registration process form using Applet and AWT components.

Program:

```

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

public class RegistrationForm extends JFrame implements ActionListener {
    private JLabel nameLabel, emailLabel, passwordLabel;
    private JTextField nameField, emailField;
    private JPasswordField passwordField;
    private JButton registerButton;

    public RegistrationForm() {
        setTitle("Registration Form");
        setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
        setSize(300, 200);
        setLocationRelativeTo(null);
        setLayout(new GridLayout(4, 2));

        nameLabel = new JLabel("Name:");
        add(nameLabel);
        nameField = new JTextField();
        add(nameField);

        emailLabel = new JLabel("Email:");
        add(emailLabel);
        emailField = new JTextField();
        add(emailField);
    }
}

```

```

passwordLabel = new JLabel("Password:");
add(passwordLabel);
passwordField = new JPasswordField();
add(passwordField);

registerButton = new JButton("Register");
registerButton.addActionListener(this);
add(registerButton);

setVisible(true);
}

public void actionPerformed(ActionEvent e) {
    if (e.getSource() == registerButton) {
        String name = nameField.getText();
        String email = emailField.getText();
        String password = new String(passwordField.getPassword());

        // Perform registration logic here

        JOptionPane.showMessageDialog(this, "Registration Successful!");
    }
}

public static void main(String[] args) {
    SwingUtilities.invokeLater(new Runnable() {
        public void run() {
            new RegistrationForm();
        }
    });
}

```

Output:

Expr 9:

Write a Servlet code to demonstrate GET and POST methods with suitable example.

Program:

```

import java.io.IOException;
import java.io.PrintWriter;
import javax.servlet.ServletException;
import javax.servlet.http.HttpServlet;
import javax.servlet.http.HttpServletRequest;
import javax.servlet.http.HttpServletResponse;

public class DemoServlet extends HttpServlet {
    protected void doGet(HttpServletRequest request, HttpServletResponse
        response)
        throws ServletException, IOException {
        response.setContentType("text/html");
        PrintWriter out = response.getWriter();
    }
}

```

```

out.println("<html>");
out.println("<head>");
out.println("<title>GET Method Example</title>");
out.println("</head>");
out.println("<body>");
out.println("<h1>GET Method Example</h1>");
out.println("<p>Enter your name:</p>");
out.println("<form method=\"post\">");
out.println("<input type=\"text\" name=\"name\">");
out.println("<input type=\"submit\" value=\"Submit\">");
out.println("</form>");
out.println("</body>");
out.println("</html>");
}

protected void doPost(HttpServletRequest request, HttpServletResponse
response)
throws ServletException, IOException {
response.setContentType("text/html");
PrintWriter out = response.getWriter();

String name = request.getParameter("name");

out.println("<html>");
out.println("<head>");
out.println("<title>POST Method Example</title>");
out.println("</head>");
out.println("<body>");
out.println("<h1>POST Method Example</h1>");
out.println("<p>Hello, " + name + "!</p>");
out.println("</body>");
out.println("</html>");
}
}

```

Expr 10 :

write a program to chat between client and server. (swing use)

Program:

```

import java.io.*;
import java.lang.*;
import java.net.*;

class sliplclient
{
public static void main(String args[])
{
String str1;
String str2;
try
{
Socket s=new Socket("localhost",8983);

```

```

InputStream is=s.getInputStream();
DataInputStream dis=new DataInputStream(is);

OutputStream os=s.getOutputStream();
DataOutputStream dos=new DataOutputStream(os);

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

System.out.println("\n Hello TYBCA iam Cient");
System.out.println("\n Enter Your Message:");

str1=br.readLine();

dos.writeUTF(str1);

System.out.println("\nData Sent to Server");

str2=dis.readUTF();

System.out.println("\nThe Server says:"+str2);
}
catch(Exception e)
{
System.out.println(e);
}
}
}

```

Expr 11 :

write a program to connect to any database and to execute the sql query operation using GUI interface?

(design one stand alone application where user will see the given options)

- 1.Display all record
- 2.Display record with rollno
- 3.Display record with name
- 4.Insert record
- 5.Delete record with rollno
- 6.Delete record with name
- 7.Update record with rollno
- 8.Update record with name

Accept the choice from user & performs the operations according to the choice given.

Program:

```

import java.io.*;
import java.lang.*;
import java.sql.*;

class abc
{
    Connection con;
    Statement stmt;
    ResultSet rs;
    String sql;

```

```

int ch = 0;
int rn = 0;
String nm;
int mks = 0;
int i = 0;

public abc()
{
    try
    {
        Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");

        con=DriverManager.getConnection("jdbc:ucanaccess://tybcadb.accdb");
    }
    catch(Exception e)
    {
        System.out.println(e);
    }
}

public void display()
{
    try
    {
        BufferedReader br=new BufferedReader(new
InputStreamReader(System.in));

        System.out.println("MENU: ");
        System.out.println("1. Display all records ");
        System.out.println("2. Display records with rollno");
        System.out.println("3. Display records with name");
        System.out.println("4. Insert records");
        System.out.println("5. Delete records with rollno");
        System.out.println("6. Delete records with name");
        System.out.println("7. Update records with rollno");
        System.out.println("8. Update records with name");

        System.out.println("Enter your choice :");
        ch=Integer.parseInt(br.readLine());

        switch(ch)
        {
            case 1:
                sql="select * from tybcatable";
                stmt=con.createStatement();
                rs=stmt.executeQuery(sql);

                if(rs.next())
                {
                    System.out.println("\n ROLLNO \t NAME
\t MARKS");

                    do
                    {

                        System.out.println("\t"+rs.getInt("rollno")+"\t"+rs.getString("name")
+" \t"+rs.getInt("marks"));

                    }while(rs.next());
                }
            }
        }
    }
}

```

```

        else
        {
            System.out.println("No data found");
        }
        break;

    case 2:

        System.out.println("Enter RollNo :");
        rn=Integer.parseInt(br.readLine());

        sql="select * from tybcatable where

rollno="+rn;

        stmt=con.createStatement();
        rs=stmt.executeQuery(sql);

        if(rs.next())
        {
            System.out.println("\n ROLLNO \t NAME

\t MARKS");

            do
            {

                System.out.println("\t"+rs.getInt("rollno")+"\t"+rs.getString("name")
+" \t"+rs.getInt("marks"));

            }while(rs.next());
        }
        else
        {
            System.out.println("No data found");
        }
        break;

    case 3:

        System.out.println("Enter Name :");
        nm=(br.readLine());

        sql="select * from tybcatable where

name='"+nm+"'";

        stmt=con.createStatement();
        rs=stmt.executeQuery(sql);

        if(rs.next())
        {
            System.out.println("\n ROLLNO \t NAME

\t MARKS");

            do
            {

                System.out.println("\t"+rs.getInt("rollno")+"\t"+rs.getString("name")
+" \t"+rs.getInt("marks"));

            }while(rs.next());
        }
        else
        {
            System.out.println("No data found");
        }
    }
}

```

```

        }
        break;

    case 4:

        System.out.println("Enter RollNo :");
        rn=Integer.parseInt(br.readLine());

        System.out.println("Enter Name :");
        nm=(br.readLine());

        System.out.println("Marks :");
        mks=Integer.parseInt(br.readLine());

        sql="insert into tybcatable(rollno, name,
marks) values("+rn+", '"+nm+"', "+mks+"";
        stmt=con.createStatement();
        i=stmt.executeUpdate(sql);

        if(i>0)
        {
            System.out.println("\n Data Inserted");
        }
        else
        {
            System.out.println("\n Data not
Inserted");
        }
        break;

    case 5:

        System.out.println("Enter RollNo :");
        rn=Integer.parseInt(br.readLine());

        sql="delete * from tybcatable where

rollno="+rn;

        stmt=con.createStatement();
        i=stmt.executeUpdate(sql);

        if(i>0)
        {
            System.out.println("\n Data deleted
properly");
        }
        else
        {
            System.out.println("\n Data not deleted
properly");
        }
        break;

    case 6:

        System.out.println("Enter Name :");
        nm=(br.readLine());

        sql="delete * from tybcatable where

name='"+nm+"'";

        stmt=con.createStatement();
        i=stmt.executeUpdate(sql);

```



```

        if(i>0)
        {
            System.out.println("\n Data deleted
properly");
        }
        else
        {
            System.out.println("\n Data not deleted
properly");
        }
        break;

    case 7:

        System.out.println("Enter RollNo :");
        rn=Integer.parseInt(br.readLine());

        System.out.println("Enter Name :");
        nm=(br.readLine());

        System.out.println("Marks :");
        mks=Integer.parseInt(br.readLine());

        sql="update tybcatable set name='"+nm+"',
marks="+mks+" where rollno="+rn;
        stmt=con.createStatement();
        i=stmt.executeUpdate(sql);

        if(i>0)
        {
            System.out.println("\n Data Updated
properly");
        }
        else
        {
            System.out.println("\n Data not Updated
properly");
        }
        break;

    case 8:

        System.out.println("Enter Name :");
        nm=(br.readLine());

        System.out.println("Enter RollNo :");
        rn=Integer.parseInt(br.readLine());

        System.out.println("Marks :");
        mks=Integer.parseInt(br.readLine());

        sql="update tybcatable set rollno="+rn+",
marks="+mks+" where name='"+nm+"'";
        stmt=con.createStatement();
        i=stmt.executeUpdate(sql);

        if(i>0)
        {
            System.out.println("\n Data Updated
properly");
        }

```

```

        }
        else
        {
            System.out.println("\n Data not Updated
properly");
        }
        break;

        default:
            System.out.println("Invalid
Choice");
            break;
    }

    }
    catch(Exception e)
    {
    }
}

class jdbc53
{
    public static void main(String args[])
    {
        abc a = new abc();
        a.display();
    }
}

```

Expr 12 :

write a program to demonstrate socket programming e.g send hello world to server from client.

```

*server.java
import java.io.*;
import java.net.*;

public class Server {
    public static void main(String[] args) {
        try {
            ServerSocket serverSocket = new ServerSocket(8989);
            System.out.println("Server started. Waiting for client...");

            Socket socket = serverSocket.accept();
            System.out.println("Client connected.");

            BufferedReader reader = new BufferedReader(new
            InputStreamReader(socket.getInputStream()));
            String message = reader.readLine();
            System.out.println("Received from client: " + message);

            serverSocket.close();
        } catch (IOException e) {
            e.printStackTrace();
        }
    }
}

```

```

}
}

*client.java
import java.io.*;
import java.net.*;

public class Client {
public static void main(String[] args) {
try {
Socket socket = new Socket("localhost", 8989);

OutputStream outputStream = socket.getOutputStream();
PrintWriter writer = new PrintWriter(outputStream, true);
writer.println("Hello, World!");

socket.close();
} catch (IOException e) {
e.printStackTrace();
}
}
}

```

Expr 13:

write a program to demonstrate the use of jsp?

(Write a jsp example to display reverse of the no. on the web.)

Program:

```

<html>
<body>
<form method=post
action="http://localhost:8080/examples/jsp/Semester6_solved_Practical_slips
_jsp/slip2B.jsp">
Enter the Number To Reverse:<input type=text name="text1"></input>
<input type=submit value=Check></input>
</form>
</body>
</html>

```

```

<%@ page language="java" import="java.io.,java.lang."%>
<%!
int rem=0;
int rev=0;
int no=0;
%>

<%
no=Integer.parseInt(request.getParameter("text1"));

while(no!=0)
{
rem=no%10;
rev=(rev*10)+rem;
no=no/10;
}

```

```
out.println("The Reverse Numbers are Displayed Below:"+rev);  
  
%>
```

Expr 14:

Write a program to connect to any database and to execute the SQL query operation on command prompt.

// Connecting to the Database

```
import java.sql.*;
```

```
public class connect
```

```
{  
    public static void main(String args[])  
    {  
        try  
        {  
            Class.forName("oracle.jdbc.driver.OracleDriver");  
  
            // Establishing Connection  
            Connection con = DriverManager.getConnection(  
                "jdbc:oracle:thin:@localhost:1521:orcl", "login1", "pwd1");  
  
            if (con != null)  
                System.out.println("Connected");  
            else  
                System.out.println("Not Connected");  
  
            con.close();  
        }  
        catch(Exception e)  
        {  
            System.out.println(e);  
        }  
    }  
}
```

// inserting to the Database

```
import java.sql.*;
```

```
public class insert1
```

```
{  
    public static void main(String args[])  
    {  
        String id = "id1";  
        String pwd = "pwd1";  
        String fullname = "geeks for geeks";
```

```

String email = "geeks@geeks.org";

try
{
    Class.forName("oracle.jdbc.driver.OracleDriver");
    Connection con = DriverManager.getConnection("
jdbc:oracle:thin:@localhost:1521:orcl", "login1", "pwd1");
    Statement stmt = con.createStatement();

    // Inserting data in database
    String q1 = "insert into userid values('"+id+"', '"+pwd+
        "'", '"+fullname+"', '"+email+
        "')";

    int x = stmt.executeUpdate(q1);
    if (x > 0)
        System.out.println("Successfully Inserted");
    else
        System.out.println("Insert Failed");

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

```

// updating the Database

```

import java.sql.*;

public class update1
{
    public static void main(String args[])
    {
        String id = "id1";
        String pwd = "pwd1";
        String newPwd = "newpwd";
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con = DriverManager.getConnection("
jdbc:oracle:thin:@localhost:1521:orcl", "login1", "pwd1");
            Statement stmt = con.createStatement();

            // Updating database
            String q1 = "UPDATE userid set pwd = '"+newPwd+"
                "' WHERE id = '"+id+"' AND pwd = '"+pwd+"'";
            int x = stmt.executeUpdate(q1);

```

```

        if (x > 0)
            System.out.println("Password Successfully Updated");

        else
            System.out.println("ERROR OCCURRED :(");

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

```

// deleting from Database

```
import java.sql.*;
```

```
public class delete
```

```

{
    public static void main(String args[])
    {
        String id = "id2";
        String pwd = "pwd2";
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con = DriverManager.getConnection("
jdbc:oracle:thin:@localhost:1521:orcl", "login1", "pwd1");
            Statement stmt = con.createStatement();

            // Deleting from database
            String q1 = "DELETE from userid WHERE id = " + id +
                " AND pwd = " + pwd + """;

            int x = stmt.executeUpdate(q1);

            if (x > 0)
                System.out.println("One User Successfully Deleted");

            else
                System.out.println("ERROR OCCURRED :(");

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

```

```

    }
}

```

// selecting from Database

```
import java.sql.*;
```

```
public class select
```

```
{
    public static void main(String args[])
    {
```

```
        String id = "id1";
        String pwd = "pwd1";
        try
        {
```

```
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con = DriverManager.getConnection("
                jdbc:oracle:thin:@localhost:1521:orcl", "login1",

```

```
"pwd1");
```

```
            Statement stmt = con.createStatement();
```

```
            // SELECT query
```

```
            String q1 = "select * from userid WHERE id = " + id +
                "" AND pwd = " + pwd +

```

```
            "";
```

```
            ResultSet rs = stmt.executeQuery(q1);
```

```
            if (rs.next())
```

```
            {
                System.out.println("User-Id : " + rs.getString(1));
                System.out.println("Full Name : " + rs.getString(3));
                System.out.println("E-mail : " + rs.getString(4));
            }

```

```
            else
```

```
            {
                System.out.println("No such user id is already registered");
            }

```

```
            con.close();
        }

```

```
    catch(Exception e)
    {
```

```
        System.out.println(e);
    }

```

```

    }
}

```