

SLOT- 20
Program 4

Write a JDBC program to depict the usage of SQLException Class and SQLWarning Class.

SOURCE CODE

```
package Networking;
import java.sql.*;
public class sqlexception {
    public static void main(String[] args) throws Exception{
        try
        {
            Class.forName("oracle.jdbc.driver.OracleDriver");
            Connection con=
DriverManager.getConnection("jdbc:oracle:thin:@localhost:1521:orcl","mca","mca");
            Statement stmt=con.createStatement();
            stmt.executeUpdate("select * from employee2 where ename=chetan ");
        }
        catch(SQLException e)
        {
            System.out.println("SQL message :"+e.getMessage());
            System.out.println("SQL state :"+e.getSQLState());
            System.out.println("SQL error code :"+e.getErrorCode());
            System.out.println("SQL cause :"+e.getCause());
            e.printStackTrace();
        }
    }
}
```

OUTPUT

SQL message :ORA-00904: "CHETAN": invalid identifier

SQL state :42000

SQL error code :904

java.sql.SQLException: ORA-00904: "CHETAN": invalid identifier

SQL cause :Error : 904, Position : 36, Sql = select * from employee2 where ename=chetan , OriginalSql = select *

```
at jdbc/oracle.jdbc.driver.T4CIIoer11.processError(T4CIIoer11.java:628)
at jdbc/oracle.jdbc.driver.T4CIIoer11.processError(T4CIIoer11.java:562)
at jdbc/oracle.jdbc.driver.T4C8Oall1.processError(T4C8Oall1.java:1145)
at jdbc/oracle.jdbc.driver.T4CIIIfun.receive(T4CIIIfun.java:726)
at jdbc/oracle.jdbc.driver.T4CIIIfun.doRPC(T4CIIIfun.java:291)
at jdbc/oracle.jdbc.driver.T4C8Oall1.doOALL(T4C8Oall1.java:492)
at jdbc/oracle.jdbc.driver.T4CStatement.doOall8(T4CStatement.java:108)
at jdbc/oracle.jdbc.driver.T4CStatement.executeForDescribe(T4CStatement.java:887)
at jdbc/oracle.jdbc.driver.OracleStatement.prepareDefineBufferAndExecute(OracleStatement.java:1158)
at jdbc/oracle.jdbc.driver.OracleStatement.executeMaybeDescribe(OracleStatement.java:1093)
at jdbc/oracle.jdbc.driver.OracleStatement.executeQuerySelect(OracleStatement.java:1402)
at jdbc/oracle.jdbc.driver.OracleStatement.doExecuteWithTimeout(OracleStatement.java:1285)
at jdbc/oracle.jdbc.driver.OracleStatement.executeUpdateInternal(OracleStatement.java:2063)
at jdbc/oracle.jdbc.driver.OracleStatement.executeUpdateLargeUpdate(OracleStatement.java:2028)
at jdbc/oracle.jdbc.driver.OracleStatement.executeUpdate(OracleStatement.java:2016)
at jdbc/oracle.jdbc.driver.OracleStatementWrapper.executeUpdate(OracleStatementWrapper.java:310)
at jdbc/javax.net.DbWarn.main(DbWarn.java:12)
Caused by: Error : 904, Position : 36, Sql = select * from employee2 where ename=chetan , OriginalSql = select *

at jdbc/oracle.jdbc.driver.T4CIIoer11.processError(T4CIIoer11.java:632)
... 16 more
```

SLOT- 21
Program 1

Using Java AWT components, read text from a text box, and insert it into a list. Similarly, remove selected items from the list, and place it into another list.

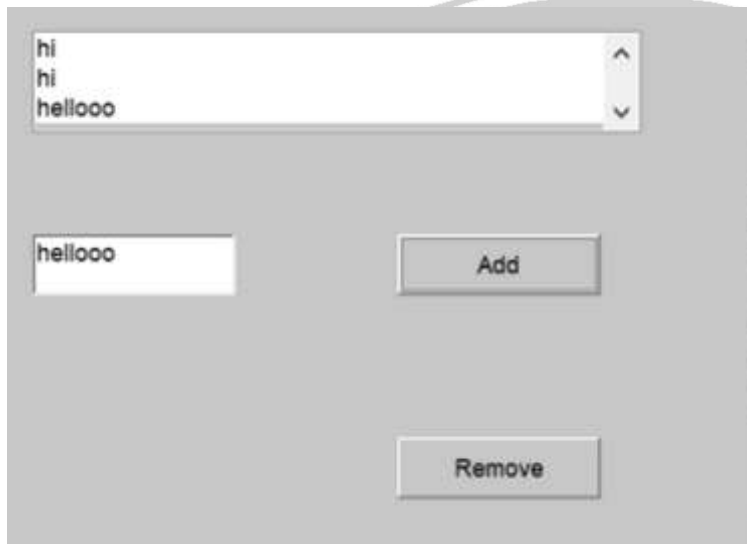
SOURCE CODE

```
import java.awt.*;
import java.awt.event.*;
public class AwtComp implements ActionListener, WindowListener
{
    Button b1;Button b;TextField t1;List ls;
    AwtComp()
    {
        Frame f=new Frame("Arya_Jagish");
        f.setVisible(true);
        f.setLayout(null);
        f.setSize(400, 400);
        f.setBackground(Color.PINK);
        t1=new TextField();
        t1.setBounds(20, 200, 100, 30);
        f.add(t1);
        b=new Button("Add");
        b.setBounds(200, 200, 100, 30);
        b.addActionListener(this);
        f.add(b);
        b1=new Button("Remove");
        b1.setBounds(200, 300, 100, 30);
        b1.addActionListener(this);
        f.add(b1);
        ls=new List();
```

```
ls.setBounds(20, 100,300, 50);
ls.add("hi");
ls.add("hi");
ls.add("hi");
ls.add("hi");
f.add(ls);
}
public void actionPerformed(ActionEvent e)
{
Object source = e.getSource();
String str ;
if(source==b)
{
str = t1.getText();
ls.add(str);
}else
{
ls.remove(ls.getSelectedItem());
}
}
public static void main(String arg[])
{
new AwtComp();
}
public void windowOpened(WindowEvent e) {}
public void windowClosing(WindowEvent e)
{
System.exit(0);
}
public void windowClosed(WindowEvent e) {}
public void windowIconified(WindowEvent e) {}
public void windowDeiconified(WindowEvent e) {}
```

```
public void windowActivated(WindowEvent e) {}  
public void windowDeactivated(WindowEvent e){}
```

OUTPUT



SLOT- 21
Program 2

Implement a numeric calculator using Java AWT.

SOURCE CODE

```
import java.awt.*;
import java.lang.*;
import java.awt.event.*;
import javax.swing.*;

public class NumCal implements ActionListener, WindowListener
{
    Frame f;String data ;String n1,n2;
    TextField t1,t2,t3;Label l1,l2,l3;
    Button b1,b2,b3,b4,b5,b6;
    NumCal()
    {
        f=new Frame("Arya Jagish");
        f.setVisible(true);
        f.setLayout(null);
        f.setSize(400, 400);
        f.setBackground(Color.WHITE);
        l1=new Label("enter 2 num:");
        l1.setBounds(60, 100, 100, 10);
        f.add(l1);
        t1=new TextField(null);
        t1.setBounds(200, 100, 100, 30);
        f.add(t1);
        t2=new TextField(null);
        t2.setBounds(350, 100, 100, 30);
        f.add(t2);
```

```

b1=new Button("+");
b1.setBounds(100, 200, 50, 30);
b1.addActionListener(this);
f.add(b1);
b1.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e)
{
n1 =t1.getText().toString();
n2=t2.getText().toString();
int d1=Integer.parseInt(n1);
int d2=Integer.parseInt(n2);
int s=d1 +d2;
data = Integer.toString(s);
l3=new Label(data);
l3.setBounds(200, 300, 100, 30);
f.add(l3);
}
});
b2=new Button("-");
b2.setBounds(200, 200, 50, 30);
b2.addActionListener(this);
f.add(b2);
b1.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e)
{
n1 =t1.getText().toString();
n2=t2.getText().toString();
int d1=Integer.parseInt(n1);
int d2=Integer.parseInt(n2);
int s=d1 -d2;
data = Integer.toString(s);
l3=new Label(data);

```

```

l3.setBounds(200, 300, 100, 30);
f.add(l3);
}
});
b3=new Button("*");
b3.setBounds(300, 200, 50, 30);
b3.addActionListener(this);
f.add(b3);
b1.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e)
{
n1 =t1.getText().toString();
n2=t2.getText().toString();
int d1=Integer.parseInt(n1);
int d2=Integer.parseInt(n2);
int s=0;
s=d1 *d2;
data = Integer.toString(s);
l3=new Label(data);
l3.setBounds(200, 300, 100, 30);
f.add(l3);
}
});
b4=new Button("/");
b4.setBounds(405, 200, 50, 30);
b4.addActionListener(this);
f.add(b4);
b1.addActionListener(new ActionListener() {
public void actionPerformed(ActionEvent e)
{
n1 =t1.getText().toString();
n2=t2.getText().toString();

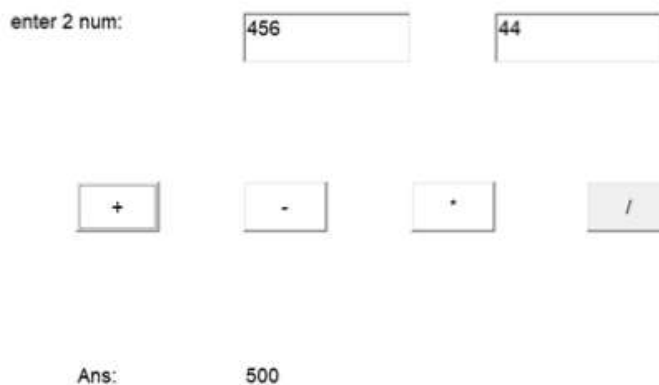
```



```
int d1=Integer.parseInt(n1);
int d2=Integer.parseInt(n2);
int s=d1 /d2;
data = Integer.toString(s);
l3=new Label(data);
l3.setBounds(200, 300, 100, 30);
f.add(l3);
}
});
l2=new Label("Ans:");
l2.setBounds(100, 300, 100, 30);
f.add(l2);
}
public void windowOpened(WindowEvent e) {
}
public void windowClosing(WindowEvent e) {
// TODO Auto-generated method stub
System.exit(0);
}
public void windowClosed(WindowEvent e) {
// TODO Auto-generated method stub
System.exit(0);
}
public void windowIconified(WindowEvent e) {
// TODO Auto-generated method stub
}
public void windowDeiconified(WindowEvent e) {
// TODO Auto-generated method stub
}
public void windowActivated(WindowEvent e) {
// TODO Auto-generated method stub
}
```

```
public void windowDeactivated(WindowEvent e) {  
    // TODO Auto-generated method stub  
}  
public static void main(String args[])  
{  
    new NumCal();  
}  
public void actionPerformed(ActionEvent e) {  
    // TODO Auto-generated method stub  
}  
}
```

OUTPUT



enter 2 num: 456 44

+ - * /

Ans: 500