

PROGRAM 14

JDBC

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.ActionEvent;
import java.awt.event.ActionListener;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.SQLException;

class MyFrame extends JFrame implements ActionListener
{
    JLabel name, author, price, stock;
    JTextField tf1, tf2, tf3, tf4;
    JButton save;

    MyFrame()
    {
        GridBagLayout g=new GridBagLayout();
        GridBagConstraints gc =new GridBagConstraints();
        setLayout(g);
        setTitle("first scene");
        Insets i=new Insets(5,5,5,5);
        gc.insets=i;

        name=new JLabel("Book name ");
        author=new JLabel("Author name ");
        price=new JLabel("Price of book ");
        stock=new JLabel("Number of books in stock ");
        tf1=new JTextField(15);
        tf2=new JTextField(15);
        tf3=new JTextField(15);
        tf4=new JTextField(15);

        save=new JButton("SAVE");
        save.addActionListener(this);

        gc.gridx=0;
        gc.gridy=0;add(name,gc);
        gc.gridy=1;add(author,gc);
        gc.gridy=2;add(price,gc);
        gc.gridy=3;add(stock,gc);
        gc.gridx=1;
        gc.gridy=0;add(tf1,gc);
        gc.gridy=1;add(tf2,gc);
        gc.gridy=2;add(tf3,gc);
        gc.gridy=3;add(tf4,gc);
        gc.gridx=0;gc.gridy=4;
        add(save,gc);
    }
}
```

```

        setBackground(Color.gray);
        setVisible (true );
        setSize(500,500);
    }
    public void actionPerformed(ActionEvent e)
    {
        String nm=tf1.getText();
        String auth=tf2.getText();
        String pr=tf3.getText();
        String st=tf4.getText();

        Connection con=null;
        try
        {
            Class.forName("com.mysql.jdbc.Driver");
            con=
DriverManager.getConnection("jdbc:mysql://localhost:3306/book_details","root","payal");
            PreparedStatement p=con.prepareStatement("Insert into book values(?,?,?,?);");
            p.setString(1,nm);
            p.setString(2,auth);
            p.setDouble(3,Double.parseDouble(pr));
            p.setInt(4,Integer.parseInt(st));
            int r=p.executeUpdate();

        }
        catch(SQLException ex)
        {
            System.out.println(ex);
        }
        catch(ClassNotFoundException ex)
        {
            System.out.println(ex);
        }
        finally
        {
            try {con.close();}
            catch(SQLException ex){}
        }
    }
}
class Test1
{
    public static void main(String[] args) {
        new MyFrame();
    }
}

```

first scene

Book name

Author name

Price of book

Number of books in stock

```
mysql> use book_details;
Database changed
mysql> select * from book;
+-----+-----+-----+-----+
| name          | author        | price | stock |
+-----+-----+-----+-----+
| head first java | kathy sierra | 300   | 20    |
+-----+-----+-----+-----+
1 row in set (0.01 sec)
```