**Practical No. 25:** Design a JavaFX-based movie ticket booking system where users can select a movie, choose a showtime, and specify the number of tickets they wish to purchase.

- (a) The system should calculate the total cost based on the movie and the number of tickets, and display it in the UI.
- (b) Users can confirm their booking with a button, which will show a confirmation message
- (c) Additionally, a reset button should allow users to clear all selections and start over.
- (d) Provide an exit button to close the application.

## **Source Code:**

```
import javafx.application.Application;
import javafx.event.ActionEvent;
import javafx.event.EventHandler;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.ComboBox;
import javafx.scene.control.Label;
import javafx.scene.control.RadioButton;
import javafx.scene.control.TextArea;
import javafx.scene.control.ToggleGroup;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.stage.Stage;
public class Q25 extends Application {
  private ComboBox<String> movies;
  private ComboBox<String> tickets;
  private ToggleGroup group;
  private TextArea ta;
  private Stage primaryStage;
  public static void main(String[] args) {
    launch(args);
  }
```

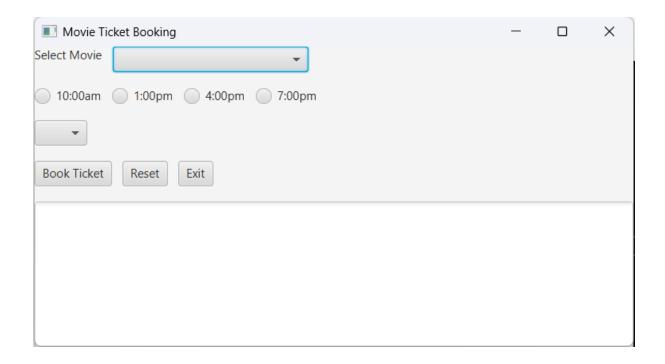
```
public void start(Stage stage) throws Exception {
    primaryStage = stage;
    ta = new TextArea();
    Label 11 = new Label("Select Movie");
    Button b1 = new Button("Book Ticket");
    Button resetBtn = new Button("Reset");
    Button exitBtn = new Button("Exit");
    movies = new ComboBox<>();
    movies.getItems().addAll("The Shawshank Redemption", "The Godfather", "Astitva",
"Mother India");
    tickets = new ComboBox<>();
    tickets.getItems().addAll("1", "2", "3", "4");
    group = new ToggleGroup();
    RadioButton r1 = new RadioButton("10:00am");
    RadioButton r2 = new RadioButton("1:00pm");
    RadioButton r3 = new RadioButton("4:00pm");
    RadioButton r4 = new RadioButton("7:00pm");
    r1.setToggleGroup(group);
    r2.setToggleGroup(group);
    r3.setToggleGroup(group);
    r4.setToggleGroup(group);
    HBox\ movieSelection = new\ HBox(10, 11, movies);
    HBox timeSelection = new HBox(10, r1, r2, r3, r4);
    HBox\ ticketSelection = new\ HBox(10,\ tickets);
    HBox buttons = new HBox(10, b1, resetBtn, exitBtn);
    VBox root = new VBox(15, movieSelection, timeSelection, ticketSelection, buttons, ta);
    Scene sc = new Scene(root, 600, 300);
    stage.setScene(sc);
```

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```
stage.setTitle("Movie Ticket Booking");
  stage.show();
  b1.setOnAction(this::bookTicket);
  resetBtn.setOnAction(this::resetForm);
  exitBtn.setOnAction(this::exitApp);
}
private void bookTicket(ActionEvent e) {
  String s = null;
  if (((RadioButton) group.getSelectedToggle()) != null) {
     s = ((RadioButton) group.getSelectedToggle()).getText();
  }try {
     int tt = Integer.parseInt(tickets.getValue());
     int charges = 100 * tt;
     ta.setText("Movie Name: " + movies.getValue()
          + "\nShow Time: " + s
          + "\nYou selected " + tickets.getValue() + " ticket(s)"
          + "\nTotal Cost: ₹" + charges);
  } catch (Exception ex) {
     ta.setText("Please make sure all fields are selected correctly.");
  }}
private void resetForm(ActionEvent e) {
  movies.getSelectionModel().clearSelection();
  tickets.getSelectionModel().clearSelection();
  group.selectToggle(null);
  ta.clear();
}
private void exitApp(ActionEvent e) {
  primaryStage.close();
}}
```

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## **Output:**





**Practical No. 26:** Create a database of employee with the following fields: Name, Code, Designation ,Salary.

- (a) Write a java program to create GUI java application to take employee data from the TextFields and store in database using JDBC connectivity.
- (b) Write a JDBC Program to retrieves all the records from employee database.

## **Source Code:**

```
import java.awt.*;
import java.awt.event.*;
import javax.swing.*;
import java.sql.*;
class MyFrame extends JFrame implements ActionListener
{ JTextField name, code, designation, salary;
  MyFrame()
  {
    this.setSize(300,400);
    this.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
    this.setLayout(new BorderLayout());
    JPanel panel = new JPanel(new GridLayout(6,3,10,10));
    panel.setBorder(BorderFactory.createEmptyBorder(20,20,20,20));
    name = new JTextField();
    code = new JTextField();
    designation = new JTextField();
    salary = new JTextField();
    panel.add(new JLabel("NAME")); panel.add(name);
    panel.add(new JLabel("CODE")); panel.add(code);
    panel.add(new JLabel("DESIGNATION")); panel.add(designation);
    panel.add(new JLabel("SALARY")); panel.add(salary);
    JButton save = new JButton("SAVE");
    JButton reset = new JButton("RESET");
    JButton exit = new JButton("EXIT");
```

```
save.addActionListener(this);
    reset.addActionListener(this);
    exit.addActionListener(this);
    panel.add(new JLabel());
    panel.add(save);
    panel.add(reset);
    panel.add(exit);
    this.add(panel, BorderLayout.NORTH);
    this.setVisible(true);
  }
  public void saveOperation()
    try
       Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/db",
"root", "");
       String query = "INSERT INTO employee (`Name`, `Code`, `Designation`,
`Salary`) VALUES (?,?,?,?)";
       PreparedStatement st = con.prepareStatement(query);
       String vName = name.getText();
       int vCode = Integer.parseInt(code.getText());
       String vDesignation = designation.getText();
       float vSalary = Float.parseFloat(salary.getText());
       st.setString(1,vName);
       st.setInt(2,vCode);
       st.setString(3,vDesignation);
       st.setFloat(4,vSalary);
       int row = st.executeUpdate();
       if(row > 0)
         System.out.println("Saved data successfully.");
```

```
else
         System.out.println("Data Could'nt be saved.");
       st.close();
       con.close();
     }catch(SQLException e)
       System.out.println("Exception Occurs: " + e);
     }
  }
  public void actionPerformed(ActionEvent e)
    String command = e.getActionCommand();
    if(command.equals("SAVE"))
    {
       saveOperation();
     }else if(command.equals("RESET"))
       name.setText("");
       code.setText("");
       salary.setText("");
       designation.setText("");
     }else if(command.equals("EXIT"))
    {
       System.exit(0);
public class Q26 {
  public static void retrieveAllRecords()
```

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}

```
{
    try
     {
       Connection con = DriverManager.getConnection("jdbc:mysql://localhost:3306/db",
"root", "");
       String query = "SELECT * FROM employee";
       PreparedStatement st = con.prepareStatement(query);
       ResultSet rs = st.executeQuery();
       int i = 1;
       while(rs.next())
          System.out.print("Employee " + i++ + ":");
         System.out.println(rs.getString(1) + " " + rs.getInt(2) + " " + rs.getString(3) + " "
+ rs.getFloat(4));
       }
       rs.close();
       st.close();
       con.close();
     }catch(SQLException e)
     {
       System.out.println("Exception Occurs:"+e);\\
     }
  }
  public static void main(String[] args) {
    new MyFrame();
    retrieveAllRecords();
  }
}
```

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## **Output:**

