PROJECT 1

Create a JavaFX project to retrieve the employee details from the database

CODE:

```java
package retrievedata;

import javafx.application.Application;
import javafx.geometry.Insets;
import javafx.geometry.Pos;
import javafx.scene.Scene;
import javafx.scene.control.Button;
import javafx.scene.control.Label;
import javafx.scene.control.TextField;
import javafx.scene.layout.HBox;
import javafx.scene.layout.VBox;
import javafx.stage.Stage;

import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.PreparedStatement;
import java.sql.ResultSet;

public class Retrievedata extends Application {
    private Connection conn;
    private PreparedStatement pstmt;
    private ResultSet rs;
    @Override
    public void start(Stage primaryStage) {
        // Create a horizontal box layout for the input fields and search button
```

```java
HBox inputBox = new HBox(10);

inputBox.setAlignment(Pos.CENTER_RIGHT);

inputBox.setPadding(new Insets(10));


// Create a label and text field for employee ID

Label idLabel = new Label("Employee ID:");

TextField idField = new TextField();


// Create a search button

Button searchButton = new Button("Search");


// Add components to the input box

inputBox.getChildren().addAll(idLabel, idField, searchButton);


// Create a vertical box layout for the output

VBox outputBox = new VBox(10);

outputBox.setAlignment(Pos.CENTER);

outputBox.setPadding(new Insets(10));


// Create a scene and set the stage

Scene scene = new Scene(new VBox(inputBox, outputBox), 300, 200);

primaryStage.setScene(scene);

primaryStage.setTitle("Employee Search");

primaryStage.show();


// Add event handler to the Search button

searchButton.setOnAction(e -> {

    String employeeId = idField.getText();

    if (!employeeId.isEmpty()) {

        try {

            // Connect to the database
```

```java
        conn = DriverManager.getConnection("jdbc:mysql://localhost:3306/hr", "root",
"dharudharu@7");

        pstmt = conn.prepareStatement("SELECT fname, lname, gmail_id FROM employee
WHERE emp_id = ?");

        pstmt.setString(1, employeeId);

        rs = pstmt.executeQuery();


        // Display employee details if found

        if (rs.next()) {

            String fname = rs.getString("fname");

            String lname = rs.getString("lname");

            String gmailId = rs.getString("gmail_id");


            Label detailsLabel = new Label("Employee Details:");

            Label fnameLabel = new Label("First Name: " + fname);

            Label lnameLabel = new Label("Last Name: " + lname);

            Label gmailIdLabel = new Label("Gmail ID: " + gmailId);


            outputBox.getChildren().addAll(detailsLabel, fnameLabel, lnameLabel, gmailIdLabel);

        } else {

            Label notFoundLabel = new Label("Employee not found!");

            outputBox.getChildren().add(notFoundLabel);

        }

    } catch (Exception ex) {

        System.err.println("Error: " + ex.getMessage());

    } finally {

        try {

            if (rs != null) rs.close();

            if (pstmt != null) pstmt.close();

            if (conn != null) conn.close();

        } catch (Exception ex) {

            System.err.println("Error closing resources: " + ex.getMessage());
```

```
            }

          }

        }

      });

    }


    public static void main(String[] args) {

        Application.launch(Retrievedata.class, args);

    }

}
```

OUTPUT: