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16BCE0721
JAVA LAB 6

JDBC Program:

CODE:

```
import java.sql.*;

public class JDBC {
   static final String JDBC_DRIVER = "com.mysql.jdbc.Driver";
   static final String DB_URL = "jdbc:mysql://localhost/EMP";

   //  Database credentials
   static final String USER = "username";
   static final String PASS = "password";

   public static void main(String[] args) {
   Connection conn = null;
   Statement stmt = null;
   try{
      Class.forName("com.mysql.jdbc.Driver");

      System.out.println("Connecting to database...");
      conn = DriverManager.getConnection(DB_URL,USER,PASS);

      System.out.println("Creating statement...");
      stmt = conn.createStatement();
      String sql;
      sql = "SELECT id, first, last, age FROM Employees";
      ResultSet rs = stmt.executeQuery(sql);

      while(rs.next()){
         int id  = rs.getInt("id");
         int age = rs.getInt("age");
         String first = rs.getString("first");
         String last = rs.getString("last");
```

```
         System.out.print("ID: " + id);
         System.out.print(", Age: " + age);
         System.out.print(", First: " + first);
         System.out.println(", Last: " + last);
      }

      rs.close();
      stmt.close();
      conn.close();
   }catch(SQLException se){
      se.printStackTrace();
   }catch(Exception e){
      e.printStackTrace();
   }finally{
      try{
         if(stmt!=null)
            stmt.close();
      }catch(SQLException se2){
      }
      try{
         if(conn!=null)
            conn.close();
      }catch(SQLException se){
         se.printStackTrace();
      }
   }
   System.out.println("Goodbye!");
   }
}
```

OUTPUT

```
Connecting to database...
Creating statement...
ID: 100, Age: 18, First: Zara, Last: Ali
ID: 101, Age: 25, First: Mahnaz, Last: Fatma
ID: 102, Age: 30, First: Zaid, Last: Khan
ID: 103, Age: 28, First: Sumit, Last: Mittal
```

JavaFX Program:

(PLAGIARISM CHECKER)

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.layout.TilePane;
import javafx.scene.layout.VBox;
import javafx.stage.FileChooser;
import javafx.stage.Stage;
import java.io.*;

public class Main extends Application {
   public static void main(String[] args){
      launch(args);
   }

   static String x;
   static String y;
   public void start(Stage primaryStage) throws Exception{
      primaryStage.setTitle("Java DA3");
      TilePane r = new TilePane();
      FileChooser fileChooser = new FileChooser();
      fileChooser.getExtensionFilters().addAll(
      new FileChooser.ExtensionFilter("Text Files", "*.txt")
      );

      Button button1 = new Button("Select File");
      VBox vBox1 = new VBox(button1);
      button1.setOnAction(new EventHandler<ActionEvent>() {
         @Override

         public void handle(ActionEvent event) {
```

```
        File selectedFile1 = fileChooser.showOpenDialog(primaryStage);
        if (selectedFile1 != null) {
            x = selectedFile1.getAbsolutePath();
        }
    }
});

Button button2 = new Button("Select File");
VBox vBox2 = new VBox(button2);
button2.setOnAction(new EventHandler<ActionEvent>() {
    @Override
    public void handle(ActionEvent event) {
        File selectedFile2 = fileChooser.showOpenDialog(primaryStage);
        if (selectedFile2 != null) {
            y = selectedFile2.getAbsolutePath();
        }
    }
});

Button button3 = new Button("Compare");
VBox vBox3 = new VBox(button3);
button3.setOnAction(new EventHandler<ActionEvent>() {
    @Override
    public void handle(ActionEvent event) {
        File f1 = new File(x);
        FileReader fr = null;
        try {
            fr = new FileReader(f1);
        } catch (FileNotFoundException e) {
                e.printStackTrace();
        }
        BufferedReader br = new BufferedReader(fr);
        String bigLine = null;
        try {
            bigLine = br.readLine();
        } catch (IOException e) {
                e.printStackTrace();
        }
        while (true) {
            try {
                if (!br.ready()) break;
            } catch (IOException e) {
                    e.printStackTrace();
```

```
    }
    try {
        bigLine = bigLine.concat(br.readLine());
    } catch (Exception e) {
        System.out.print(e.getMessage());
    }
}
String[] lines = bigLine.split(" . ");
try {
    br.close();
} catch (IOException e) {
    e.printStackTrace();
}
try {
    fr.close();
} catch (IOException e) {
    e.printStackTrace();
}
int n = lines.length;
File f2 = new File(y);
FileReader fr2 = null;
try {
    fr2 = new FileReader(f2);
} catch (FileNotFoundException e) {
    e.printStackTrace();
}
BufferedReader br2 = new BufferedReader(fr2);
String bigLine2 = null;
try {
    bigLine2 = br2.readLine();
} catch (IOException e) {
    e.printStackTrace();
}
while (true) {
    try {
        if (!br2.ready()) break;
    } catch (IOException e) {
        e.printStackTrace();
    }
    try {
        bigLine2 = bigLine2.concat(br2.readLine());
    } catch (Exception e) {
        System.out.print(e.getMessage());
```

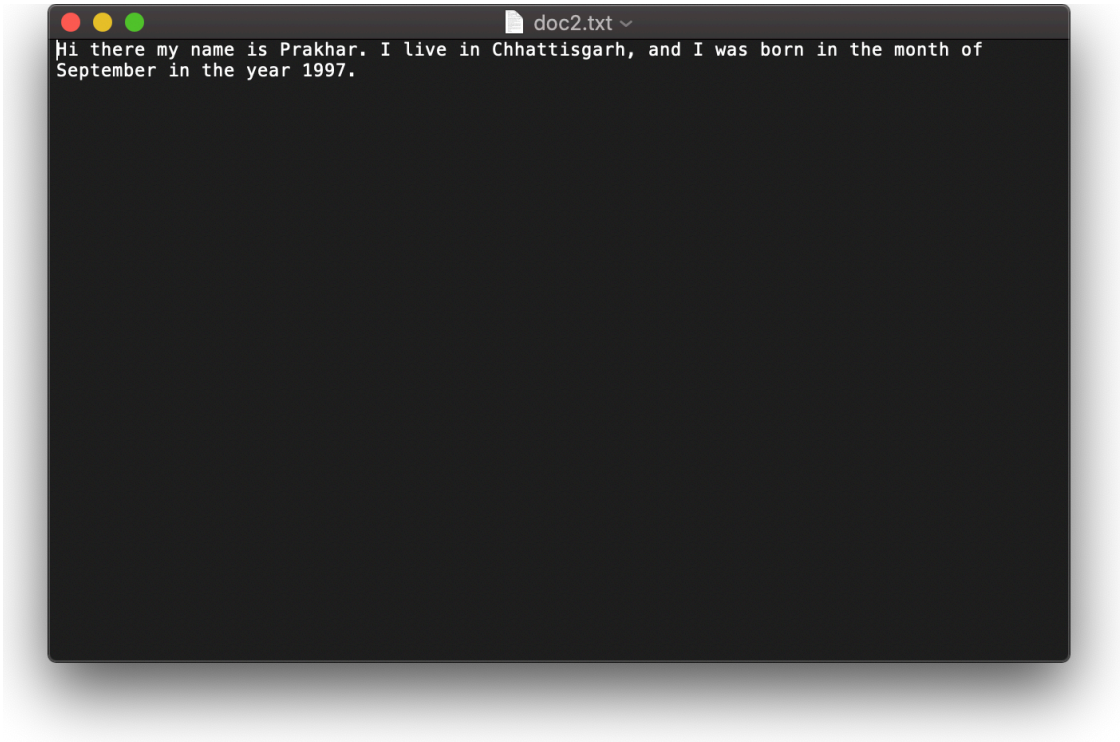
```
                }
            }
            String[] lines2 = bigLine2.split(" . ");
            try {
                br2.close();
            } catch (IOException e) {
                e.printStackTrace();
            }
            try {
                fr2.close();
            } catch (IOException e) {
                e.printStackTrace();
            }
            int m = lines2.length;
            int count = 0;
            for (int i = 0; i < n; i++) {
                for (int j = 0; j < m; j++) {
                    if (lines[i].equals(lines2[j])) {
                        count++;
                        System.out.println(lines[i]);
                    }
                }
            }
            double ans = (double) count / n;
            ans *= 100;
            System.out.print("Percentage of plagiarism: " + ans + "%");
        }
    });

    r.getChildren().add(vBox1);
    r.getChildren().add(vBox2);
    r.getChildren().add(vBox3);
    Scene scene = new Scene(r, 960, 600);
    primaryStage.setScene(scene);
    primaryStage.show();
  }
}
```

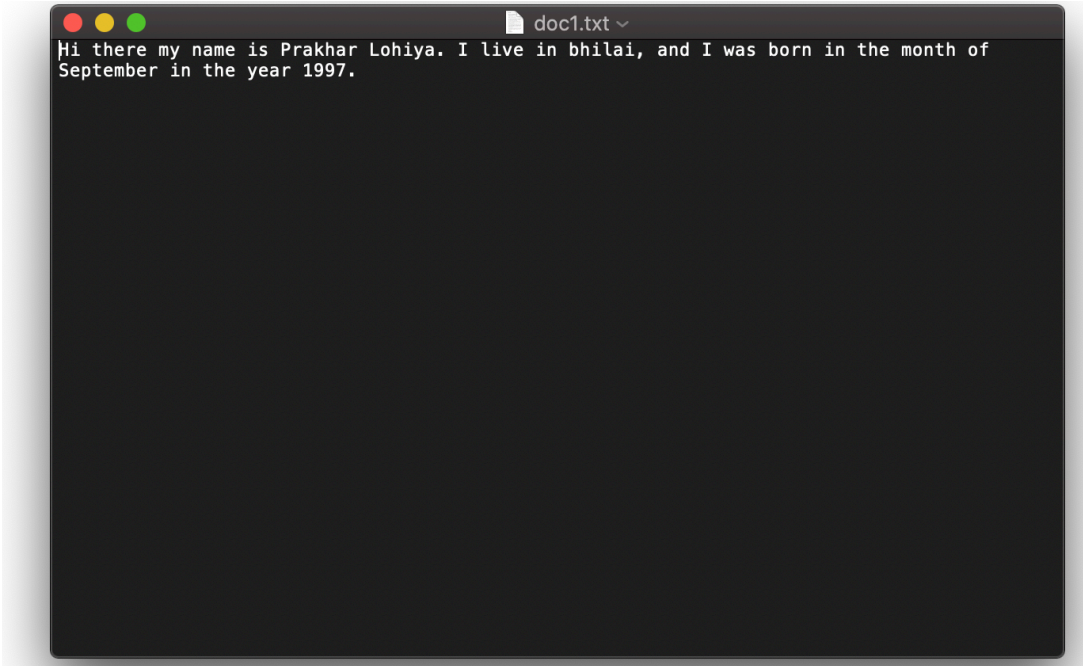
OUTPUT

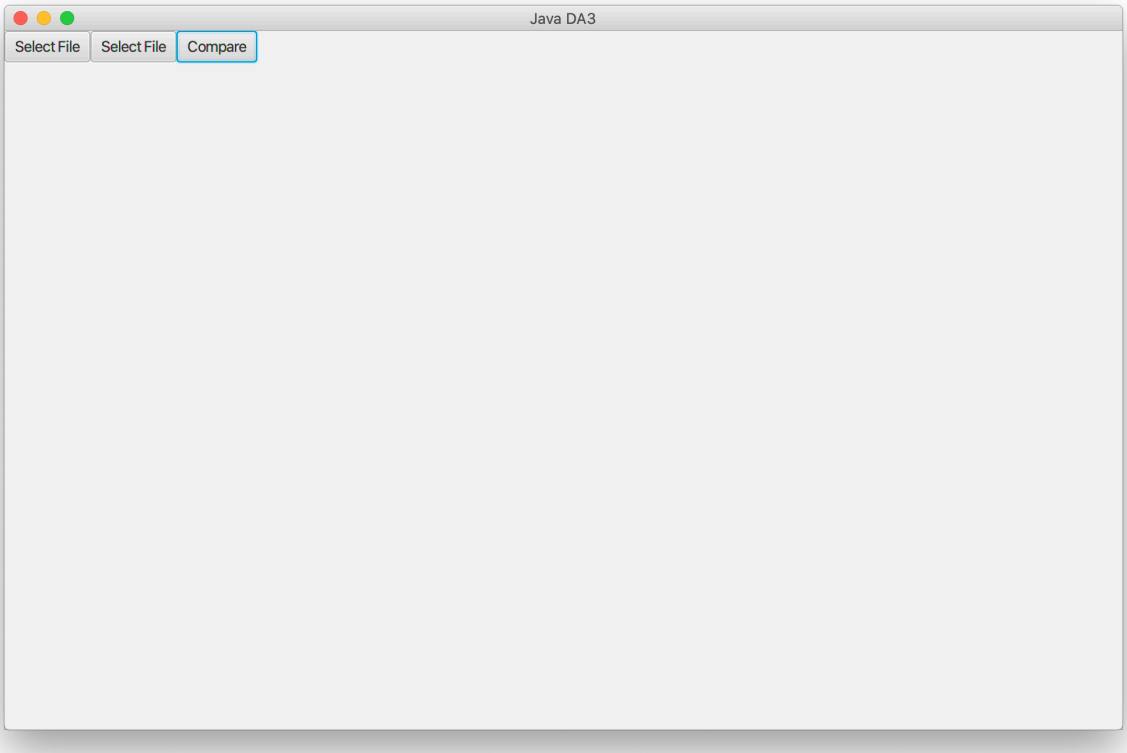
```
prakhar@PRAKHARs-MBP ~/Desktop/SEM 7/A1 JAVA/Plagiarism 2 javac Main.java
prakhar@PRAKHARs-MBP ~/Desktop/SEM 7/A1 JAVA/Plagiarism 2 java Main
2019-10-19 12:20:05.126 java[14313:491639] warning: <NSRemoteView: 0x7f99b384ebe0 com.apple.appkit.xpc.openAndSavePane
lService ((null)) NSServiceViewControllerForTouchBarItem> determined it was necessary to configure <_NSFunctionRowPane
l: 0x7f99b1caccb0> to support remote view vibrancy
2019-10-19 12:20:05.190 java[14313:491639] warning: <NSRemoteView: 0x7f99b389b150 com.apple.appkit.xpc.openAndSavePane
lService ((null)) NSServiceViewControllerForTouchBarItem> determined it was necessary to configure <_NSFunctionRowPane
l: 0x7f99b1caccb0> to support remote view vibrancy
2019-10-19 12:20:45.156 java[14313:491639] warning: <NSRemoteView: 0x7f99b710a2f0 com.apple.appkit.xpc.openAndSavePane
lService ((null)) NSServiceViewControllerForTouchBarItem> determined it was necessary to configure <_NSFunctionRowPane
l: 0x7f99b1caccb0> to support remote view vibrancy
2019-10-19 12:20:45.178 java[14313:491639] warning: <NSRemoteView: 0x7f99b710aef0 com.apple.appkit.xpc.openAndSavePane
lService ((null)) NSServiceViewControllerForTouchBarItem> determined it was necessary to configure <_NSFunctionRowPane
l: 0x7f99b1caccb0> to support remote view vibrancy
was born in the month of September in the year 1997.
Percentage of plagiarism: 33.33333333333333%
```

Sample Text 1:



Sample Text 2:


doc1.txt
Hi there my name is Prakhar Lohiya. I live in bhilai, and I was born in the month of
September in the year 1997.


Java DA3
Select File
Select File
Compare