Experiment No: 8

SOURCE CODE:

Databasecreation.java :

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

public class Databasecreation {
   static final String DB_URL = "jdbc:mysql://localhost:3306/";
   static final String USER = "root";
   static final String PASS = "root123";

   public static void main(String[] args) throws ClassNotFoundException {
      // Open a connection
      try
      {
        Class.forName("com.mysql.jdbc.Driver");
   Connection conn=DriverManager.getConnection(
              DB_URL, USER, PASS);

   Statement stmt=conn.createStatement();
         String sql = "CREATE DATABASE STUDENTS2";
         stmt.executeUpdate(sql);
         System.out.println("Database created successfully...");
      } catch (SQLException e) {
         e.printStackTrace();
      }
   }
}
```

Tablecreation.java :

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

public class Tablecreation {
   static final String DB_URL = "jdbc:mysql://localhost:3306/STUDENTS2";
   static final String USER = "root";
   static final String PASS = "root123";

   public static void main(String[] args) throws ClassNotFoundException {
      // Open a connection
      try
      {
        Class.forName("com.mysql.jdbc.Driver");
   Connection conn=DriverManager.getConnection(
              DB_URL, USER, PASS);

   Statement stmt=conn.createStatement();
         String sql = "CREATE TABLE REG " +
                  "(id INTEGER not NULL, " +
                  " first VARCHAR(255), " +
                  " last VARCHAR(255), " +
                  " age INTEGER, " +
```

```
                    " PRIMARY KEY ( id ))";

         stmt.executeUpdate(sql);
         System.out.println("Created table in given database...");
      } catch (SQLException e) {
         e.printStackTrace();
      }
   }
}
```

Insertingdata.java :

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

public class Insertingdata {
        static final String DB_URL = "jdbc:mysql://localhost:3306/STUDENTS2"
;
        static final String USER = "root";
        static final String PASS = "root123";
  public static void main(String[] args) throws ClassNotFoundException {
     // Open a connection
try
      {
       Class.forName("com.mysql.jdbc.Driver");
        Connection conn=DriverManager.getConnection(
                    DB_URL, USER, PASS);

        Statement stmt=conn.createStatement();
        // Execute a query
        System.out.println("Inserting records into the table...");
        String sql = "INSERT INTO REG VALUES (100, 'Zara', 'Ali', 18)";
        stmt.executeUpdate(sql);
        sql = "INSERT INTO REG VALUES (101, 'Mahnaz', 'Fatma', 25)";
        stmt.executeUpdate(sql);
        sql = "INSERT INTO REG VALUES (102, 'Zaid', 'Khan', 30)";
        stmt.executeUpdate(sql);
        sql = "INSERT INTO REG VALUES(103, 'Sumit', 'Mittal', 28)";
        stmt.executeUpdate(sql);
        System.out.println("Inserted records into the table...");
     } catch (SQLException e) {
        e.printStackTrace();
     }
  }
}
```

Displaydata.java :

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
import java.sql.Statement;

public class Insertingdata {
        static final String DB_URL = "jdbc:mysql://localhost:3306/STUDENTS2"
;
        static final String USER = "root";
```

```
        static final String PASS = "root123";
  public static void main(String[] args) throws ClassNotFoundException {
     // Open a connection
try
      {
       Class.forName("com.mysql.jdbc.Driver");
        Connection conn=DriverManager.getConnection(
                    DB_URL, USER, PASS);

        Statement stmt=conn.createStatement();
        // Execute a query
        System.out.println("Inserting records into the table...");
        String sql = "INSERT INTO REG VALUES (100, 'Zara', 'Ali', 18)";
        stmt.executeUpdate(sql);
        sql = "INSERT INTO REG VALUES (101, 'Mahnaz', 'Fatma', 25)";
        stmt.executeUpdate(sql);
        sql = "INSERT INTO REG VALUES (102, 'Zaid', 'Khan', 30)";
        stmt.executeUpdate(sql);
        sql = "INSERT INTO REG VALUES(103, 'Sumit', 'Mittal', 28)";
        stmt.executeUpdate(sql);
        System.out.println("Inserted records into the table...");
     } catch (SQLException e) {
        e.printStackTrace();
     }
  }
}
```

Output:

```
Database created successfully...

Created table in given database...

Inserting records into the table...

Inserted records into the table...

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
```