EXPERIMENT 8: -

Program: -

Databasecreation.java

```
package DB;
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 = "MySQL";
  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

```
package DB;
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 = "MySQL";

  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

```
package DB;
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 = "MySQL";
 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

```
package DB;
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;
public class Displaydata {
            static final String DB_URL = "jdbc:mysql://localhost:3306/STUDENTS2";
            static final String USER = "root";
            static final String PASS = "MySQL";
   static final String QUERY = "SELECT id, first, last, age FROM REG";
   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();
        ResultSet rs = stmt.executeQuery(QUERY);
        while(rs.next()){
          System.out.print("ID: " + rs.getInt("id"));
          System.out.print(", Age: " + rs.getInt("age"));
          System.out.print(", First: " + rs.getString("first"));
          System.out.println(", Last: " + rs.getString("last"));
        }
      } 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: Ali, Last: Zara

ID: 101, Age: 25, First: Shivam, Last: Khachane

ID: 102, Age: 28, First: Rushikesh, Last: Khandagale

ID: 103, Age: 30, First: Vishwajeet, Last: Mhetre

ID: 104, Age: 28, First: Suraj, Last: Mohajkar

ID: 105, Age: 28, First: Aniket, Last: Mahale