9. Write a program to save the information Firstname, Lastname and ContactNumber in a database.

Theory:
There are 5 steps to connect any java application with the database using JDBC. These steps are as follows:

- ❍Register the Driver class
- ❍Create connection
- ❍Create statement
- ❍Execute queries
- ❍Close connection

Source Code:
File: Database.java

```
import java.sql.Connection;
import java.sql.DriverManager;
import java.sql.SQLException;
public class Database {
	Connection con;
	public Database() throws ClassNotFoundException, SQLException {
		Class.forName("com.microsoft.sqlserver.jdbc.SQLServerDriver");
		String server = "//Obs";
		int port = 1433;
		String database = "Lab2DB";
		String connectionStr = "jdbc:sqlserver:" + server + ":" + port + ";" +
"databaseName=" + database
				+ ";IntegratedSecurity=true";
		con = DriverManager.getConnection(connectionStr);
		System.out.println("Connection Obtained.");
	}
	public static void main(String[] args) throws ClassNotFoundException, SQLException {
		new Database();
	}
	public Connection getConnection() {
		// TODO Auto-generated method stub
		return con;
	}
}
```

File: CreateTable.java

```
package q9Database;

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

public class CreateTable {

	Connection con;

	public CreateTable() throws ClassNotFoundException, SQLException {
		Statement statement;
		con = new Database().getConnection();
		statement = con.createStatement();

		String create = "Create Table Student_tbl"
				+ "(id int, FirstName varchar(100), LastName varchar(100),
ContactNumber varchar(10));";
		statement.executeUpdate(create);
		System.out.println("Table Created");
	}

	public static void main(String[] args) throws ClassNotFoundException, SQLException {
		new CreateTable();
	}

}
```

File: InsertTable.java

```
package q9Database;
import java.sql.Connection;
import java.sql.ResultSet;
import java.sql.SQLException;
import java.sql.Statement;

public class InsertionTable{
	Statement statement;
	ResultSet set;

	public InsertionTable() throws ClassNotFoundException, SQLException {
		Connection conn = new Database().getConnection();
		statement = conn.createStatement();
		String insert = "INSERT INTO Student_tbl VALUES(1, 'Deepak','Nagarkoti',
'00099999')";
		String insert2 = "INSERT INTO Student_tbl VALUES(2, 'Samjhana','Subedi', '00999')";
		statement.executeUpdate(insert);
		statement.executeUpdate(insert2);
		System.out.println("Data Inserted Into Table");
		set = statement.executeQuery("SELECT * FROM Student_tbl");

		while (set.next()) {
			System.out.println("Student ID: " + set.getInt("id"));
			System.out.println("First Name: " + set.getString("FirstName"));
			System.out.println("Last Name: " + set.getString("LastName"));
			System.out.println("Contact Number: " + set.getString("ContactNumber"));
		}
	}
	public static void main(String[] args) throws ClassNotFoundException, SQLException{
		new InsertionTable();
	}
}
```

Output:

Database Connectivity:

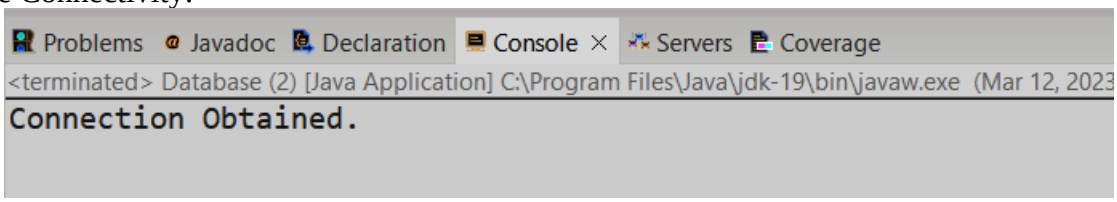
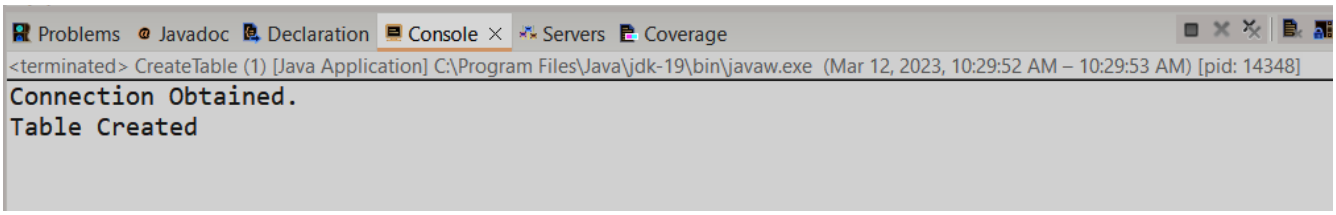
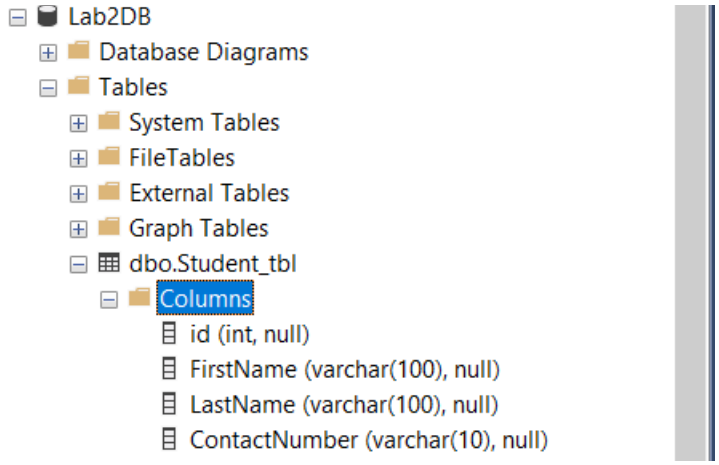
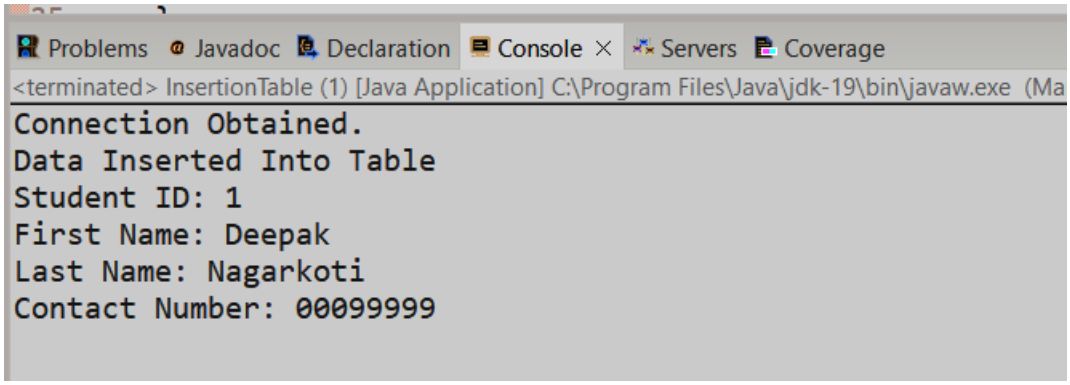
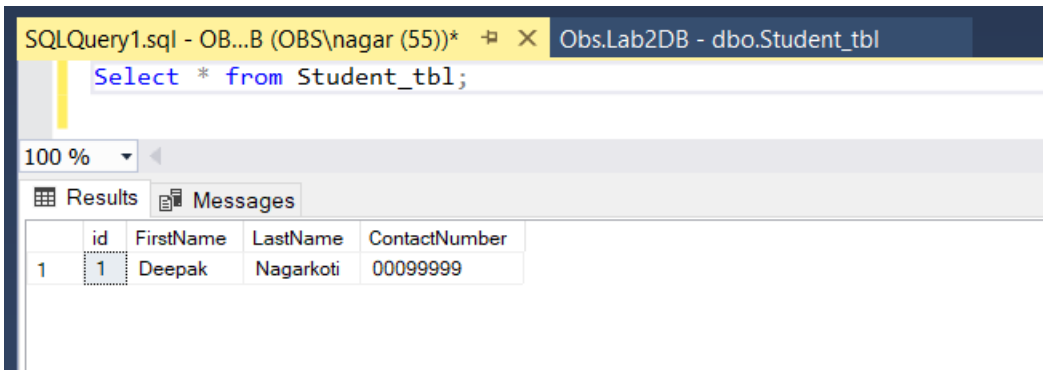


Table creation:





Insertion of data