1. **Download Java MySQL Connector *'mysql-connector-java-5.1.34-bin.jar'* and keep it on the desktop**

2. **Create a Java project in Eclipse IDE**
   - Open Eclipse IDE. Create a new Java Project and name it as "mydbproj".

3. **Configure JDBC driver in Eclipse IDE**

   - You need to add the downloaded Java MySQL Connector JAR in client **project's classpath** . To do this,**right click on your Java Project (mydbproj) -> Properties -> Buildpath -> Libraries -> Add External JAR and select "mysql-connector-java-5.1.34-bin.jar" JAR file**.

4. **Set up a simple database program**

```
import java.sql.*;
public class JdbcExample {

    public static void main(String args[]) {
        Connection con = null;
        try {
            Class.forName("com.mysql.jdbc.Driver").newInstance();
            con = DriverManager.getConnection("jdbc:mysql://localhost:3306/mydb",
"root", "");
            if (!con.isClosed())
                System.out.println("Successfully connected to MySQL server...");
        } catch(Exception e) {
            System.err.println("Exception: " + e.getMessage());
        } finally {
            try {
                if (con != null)
                    con.close();
            } catch(SQLException e) {}
        }
    }
}
```

5. **Run the program ->click on Java file -> RunAs-> Java Application. You will get the following output.**

```
Successfully connected to MySQL server...
```

2. Program to display the contents of mysql table

```
import java.sql.*;
public class mysql_demo{
      public static void main(String[] args) {
            System.out.println("MySQL Connect Example.");
            Connection conn = null;
            String url = "jdbc:mysql://localhost:3306/";
            String dbName = "mydb";
            String driver = "com.mysql.jdbc.Driver";
            String userName = "root";
            String password = "";
            String f1,f2;
            try {
                  Class.forName(driver).newInstance();
      conn = DriverManager.getConnection(url+dbName,userName,password);
                  String query = "Select * FROM stud";
                  System.out.println("Connected to the database");
                  Statement stmt = conn.createStatement();
                  ResultSet rs = stmt.executeQuery(query);

                  while (rs.next())
                  {
                        f1 = rs.getString(1);
                        f2 = rs.getString(2);
                        System.out.println(f1+"  "+f2);

                  } //end while
                  conn.close();
                  System.out.println("Disconnected from database");
                  } //end try

                  catch(ClassNotFoundException e) {
                  e.printStackTrace();
                  }

                  catch(SQLException e) {
                  e.printStackTrace();
                  }

                  catch (Exception e) {
                  e.printStackTrace();
            }

      }
}
```

3. Program to insert data into the table and display the contents.

```
import java.sql.*;
import java.io.*;
class JDBC_prepared_ins_ex{
public static void main(String args[])throws Exception{
      System.out.println("MySQL Connect Example.");
      Connection conn = null;
      String url = "jdbc:mysql://localhost:3306/";
      String dbName = "mydb";
      String driver = "com.mysql.jdbc.Driver";
      String userName = "root";
      String password = "";
      Class.forName(driver).newInstance();
      conn = DriverManager.getConnection(url+dbName,userName,password);
      System.out.println("Connected to the database");
      String myusn,myname;
PreparedStatement ps=conn.prepareStatement("insert into stud
values(?,?)");
Statement stmt = conn.createStatement();
BufferedReader br=new BufferedReader(new InputStreamReader(System.in));

do{
      //int id=Integer.parseInt(br.readLine());
      //float salary=Float.parseFloat(br.readLine());
      //ps.setFloat(2, salary);
      System.out.println("enter usn:");
      myusn=br.readLine();
      System.out.println("enter name:");
      myname=br.readLine();

      ps.setString(1,myusn);
      ps.setString(2,myname);

      int i=ps.executeUpdate();
      System.out.println(i+" records added");
      System.out.println("Do you want to continue: y/n");
      String s=br.readLine();
      if(s.startsWith("n")){
            break;
      }
}while(true);
String sql = "SELECT * from stud";
ResultSet rs = stmt.executeQuery(sql);
System.out.println("The records are :");
while (rs.next())
      {
            myusn = rs.getString(1);
            myname=rs.getString(2);

            System.out.println(rs.getRow()+"-"+myusn+"  "+myname);
      } //end while
conn.close();
}}
```

4. Example for Scrollable Result

```
import java.sql.*;
public class JDBC_resultset{
      public static void main(String[] args) {
            System.out.println("MySQL Connect Example.");
            Connection conn = null;
            String url = "jdbc:mysql://localhost:3306/";
            String dbName = "mydb";
            String driver = "com.mysql.jdbc.Driver";
            String userName = "root";
            String password = "";
            String uname,mypass;
            try {
                  Class.forName(driver).newInstance();
                  conn =
DriverManager.getConnection(url+dbName,userName,password);
                  System.out.println("Connected to the database");

                   Statement stmt =
conn.createStatement(ResultSet.TYPE_SCROLL_INSENSITIVE,ResultSet.CONCUR_RE
AD_ONLY);
                   String sql;
                   sql = "SELECT username,password from admin";
                   ResultSet rs = stmt.executeQuery(sql);
                   // Move cursor to the last row.
                   System.out.println("Moving cursor to the last...");
                   rs.last();
                   System.out.println("Displaying record...");
                   //Retrieve by column name
                    uname = rs.getString("username");
                    mypass = rs.getString("password");
                  //Display values
                  System.out.print("Username: " + uname);
                  System.out.println(", Password: " + mypass);
               // Move cursor to the first row.
                  System.out.println("Moving cursor to the first row...");
                  rs.first();
                 //Retrieve by column name
                          uname = rs.getString("username");
                          mypass = rs.getString("password");
                        //Display values
                        System.out.print("Username: " + uname);
                        System.out.println(", Password: " + mypass);
                        System.out.println("Moving cursor to the next
row...");
                        rs.next();
                       //Retrieve by column name
                          uname = rs.getString("username");
                          mypass = rs.getString("password");
                        //Display values
                        System.out.print("Username: " + uname);
                        System.out.println(", Password: " + mypass);
                  conn.close();
```

```
                System.out.println("Disconnected from database");
                } //end try

                catch(ClassNotFoundException e) {
                e.printStackTrace();
                }

                catch(SQLException e) {
                e.printStackTrace();
                }

                catch (Exception e) {
                e.printStackTrace();
            }

        }
}
```