Q1.Wap to establish simple connection with database using JDBC.

import java.sql.\*;

public class Establishingconnection{

private static final String url="jdbc:mysql://localhost:3306/";

private static final String username="root";

private static final String password="Shiv@#1511";

public static void main(String args[]) {

try{

Class.forName("com.mysql.cj.jdbc.Driver");

}catch(ClassNotFoundException e){

System.out.println(e.getMessage());

}

try{

Connection conn=DriverManager.getConnection(url,username,password);

System.out.println("connection established ");

System.out.println("Shivkant pandey ");

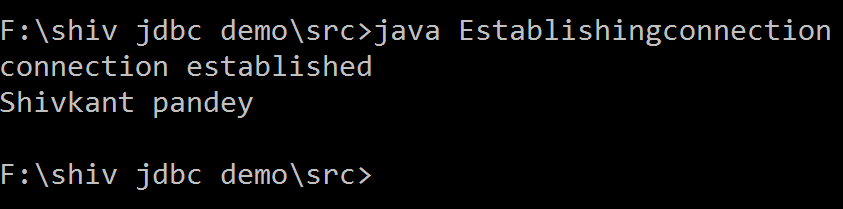
}catch(SQLException f){

System.out.println(f.getMessage());

}

}

}



Q2.Wap to retrieve data from database table using JDBC.

import java.sql.\*;

public class Retrievingdata{

public static void main(String args[]){

try{

Class.forName("com.mysql.cj.jdbc.Driver");

}catch(Exception e){

System.out.println(e.getMessage());}

String url="jdbc:mysql://localhost:3306/shivjdbc";

String username="root";

String password="Shiv@#1511";

try{

Connection con=DriverManager.getConnection(url,username,password);

Statement s=con.createStatement();

ResultSet rs=s.executeQuery("Select \* from students");

while(rs.next()){

int id=rs.getInt("id");

String name=rs.getString("name");

int age=rs.getInt("age");

double marks=rs.getDouble("marks");

System.out.println("ID : "+id);

System.out.println("NAME : "+name);

System.out.println("AGE : "+age);

System.out.println("MARKS : "+marks);}

}catch(Exception e){

System.out.println(e.getMessage());

}

}

}

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Q3.Wap to create a table in the database using JDBC.

import java.sql.\*;

public class Creatingtable{

public static void main(String args[]){

String url="jdbc:mysql://localhost:3306/shivjdbc";

String username="root";

String password="Shiv@#1511";

try{

Class.forName("com.mysql.cj.jdbc.Driver");

}catch(Exception e){

System.out.println(e.getMessage());

}

try{

Connection c=DriverManager.getConnection(url,username,password);

Statement s=c.createStatement();

s.executeUpdate("create table students1(id int auto\_increment primary key,name varchar(255) not null,age int not null,marks double not null)");

System.out.println("table created");

}

catch(Exception e){

System.out.println(e.getMessage());

}

}

}

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Q4.Wap to insert data into the table using JDBC.

import java.sql.\*;

public class Insertingdata{

public static void main(String args[]){

try{

Class.forName("com.mysql.cj.jdbc.Driver");

}catch(Exception e){

System.out.println(e.getMessage());

}

String url="jdbc:mysql://localhost:3306/shivjdbc";

String user="root";

String password="Shiv@#1511";

try{

Connection con=DriverManager.getConnection(url,user,password);

Statement s=con.createStatement();

String query=String.format("insert into students(name,age,marks) values('%s',%o,%f)","aqib",23,98.99);

int queryaffected=s.executeUpdate(query);

if (queryaffected>0){

System.out.println("data inserted succesfully ");

}

else{

System.out.println("Data insertion failed");

}

}

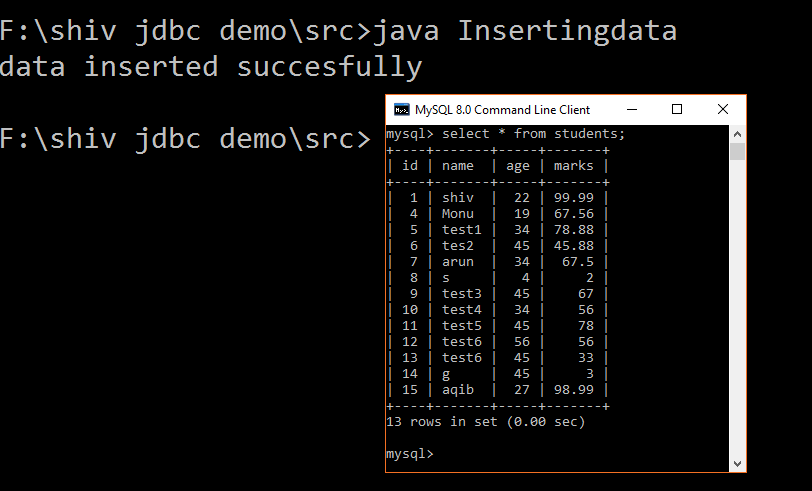
catch(Exception e){

System.out.println(e.getMessage());

}

}

}



Q5.Wap to insert values into the database table using prepared statement.

import java.sql.\*;

import java.util.\*;

public class Preparedinsert{

public static void main(String args[]){

try{

Class.forName("com.mysql.cj.jdbc.Driver");

}catch(Exception e){

System.out.println(e.getMessage());}

String url="jdbc:mysql://localhost:3306/shivjdbc";

String user="root";

String pass="Shiv@#1511";

try{

Connection c=DriverManager.getConnection(url,user,pass);

String query="insert into students(name,age,marks) values(?,?,?)";

PreparedStatement ps=c.prepareStatement(query);

Scanner sc=new Scanner(System.in);

System.out.println("Enter name");

ps.setString(1,sc.nextLine());

System.out.println("Enter age");

ps.setInt(2,sc.nextInt());

System.out.println("Enter marks");

ps.setDouble(3,sc.nextDouble());

int rowsaffect=ps.executeUpdate();

if (rowsaffect>0){System.out.println("Inserted data using prepared");

}else{System.out.println("failed");}

}catch(Exception e){System.out.println(e.getMessage());}

}

}

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Q6.Wap to insert the values into the table using the prepared statement (loop).

import java.sql.\*;

import java.util.\*;

public class Preparedinsertloop{

public static void main(String args[]){

try{

Class.forName("com.mysql.cj.jdbc.Driver");

}

catch(Exception e){System.out.println(e.getMessage());}

String url="jdbc:mysql://localhost:3306/shivjdbc";

String user="root";

String pass="Shiv@#1511";

try{

Connection c=DriverManager.getConnection(url,user,pass);

String query="insert into students(name,age,marks) values(?,?,?)";

PreparedStatement ps=c.prepareStatement(query);

do{

Scanner sc=new Scanner(System.in);

System.out.println("Enter name");

ps.setString(1,sc.nextLine());

System.out.println("Enter age");

ps.setInt(2,sc.nextInt());

System.out.println("Enter marks");

ps.setDouble(3,sc.nextDouble());

int rowsaffect=ps.executeUpdate();

if (rowsaffect>0){

System.out.println("Inserted data using prepared");

}else{System.out.println("failed");

}

Scanner sx=new Scanner(System.in);

System.out.println("Do you want to insert more rows :(y/n)");

String yn=sx.nextLine();

if (yn.startsWith("n")){break;}}

while(true);

c.close();}catch(Exception e){System.out.println(e.getMessage());}

}

}

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Q7.Wap to show the use of stored procedure.

import java.sql.\*;

public class Callingstoreprocedure{

public static void main(String args[]){

try{

Class.forName("com.mysql.cj.jdbc.Driver");

}catch(Exception f){System.out.println(f.getMessage());}

String url="jdbc:mysql://localhost:3306/shivjdbc";

String user="root";

String pass="Shiv@#1511";

try{

Connection c=DriverManager.getConnection(url,user,pass);

CallableStatement cb=c.prepareCall("{call sp()}");

cb.execute();

ResultSet rs=cb.getResultSet();

System.out.println("Student with lowest marks 60 ");

while(rs.next()){

int id=rs.getInt("id");

String name=rs.getString("name");

int age=rs.getInt("age");

double marks=rs.getDouble("marks");

System.out.println("ID : "+id);

System.out.println("NAME : "+name);

System.out.println("AGE : "+age);

System.out.println("MARKS : "+marks);}

cb.close();

}catch(Exception e){System.out.println(e.getMessage());}

}

}

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Q8.Wap to scroll the data of a table using scrollable resultset.