1.Client –Server program using Socket-Server-Socket (TCP)

Server Program:

**import** java.io.\*;

**import** java.net.\*;

**public** **class** MyServer {

**public** **static** **void** main(String[] args){

**try**{

ServerSocket ss=**new** ServerSocket(6666);

Socket s=ss.accept();

DataInputStream dis=**new** DataInputStream(s.getInputStream());

String  str=(String)dis.readUTF();

System.out.println("Are u Ready ? "+str);

ss.close();

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

}

}

Client Program:

**import** java.io.\*;

**import** java.net.\*;

**public** **class** MyClient {

**public** **static** **void** main(String[] args) {

**try**{

Socket s=**new** Socket("localhost",192:168:43:65);

DataOutputStream dout=**new** DataOutputStream(s.getOutputStream());

dout.writeUTF("Hello ,I am ready ");

dout.flush();

dout.close();

s.close();

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

}

}

2. InetAddress

**import** java.io.\*;

**import** java.net.\*;

**public** **class** InetDemo{

**public** **static** **void** main(String[] args){

**try**{

InetAddress ip=InetAddress.getByName("www.templatemonstar.com");

System.out.println("Host Name: "+ip.getHostName());

System.out.println("IP Address: "+ip.getHostAddress());

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

}

}

3.Whois Server

**import** java.io.\*;

**import** java.net.\*;

**public** **class** Whois{

**public** **static** **void** main(String[] args){

**try**{

int c;

Socket s=new Socket(“internic.net”, 43);

InputStream in=s.getInputStream();

OutputStream out=s.getOutputStream();

String str= ”www.templatemonstar.com“;

byte buf[]=str.getBytes();

out.write(buf);

while((c=in.read())!=-1){

System.out.print((char) c);

} }  }

4.Sending and Receiving text using datagramSocket and DatagramPocket

Sending Program:

**import** java.net.\*;

**public** **class** DSender{

**public** **static** **void** main(String[] args) **throws** Exception {

    DatagramSocket ds = **new** DatagramSocket();

    String str = "Welcome java";

    InetAddress ip = InetAddress.getByName("127.0.0.1");

    DatagramPacket dp = **new** DatagramPacket(str.getBytes(), str.length(), ip, 3000);

    ds.send(dp);

   ds.close();

 }  }

Receiving Program:

**import** java.net.\*;

**public** **class** DReceiver{

**public** **static** **void** main(String[] args) **throws** Exception {

    DatagramSocket ds = **new** DatagramSocket(3000);

**byte**[] buf = **new** **byte**[1024];

    DatagramPacket dp = **new** DatagramPacket(buf, 1024);

    ds.receive(dp);

    String str = **new** String(dp.getData(), 0, dp.getLength());

    System.out.println(str);

    ds.close();

}

}

5.Insert Data to MySql Table

import java.sql.\*;

public class InsertData {

static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost/STUDENTS";

static final String USER = "username";

static final String PASS = "password";

public static void main(String[] args) {

Connection conn = null;

Statement stmt = null;

try{

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

System.out.println("Connecting to a selected database...");

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

System.out.println("Connected database successfully...");

System.out.println("Inserting records into the table...");

stmt = conn.createStatement();

String sql = "INSERT INTO Registration " +

"VALUES (100, 'Zara', 'Ali', 18)";

stmt.executeUpdate(sql);

sql = "INSERT INTO Registration " +

"VALUES (101, 'Mahnaz', 'Fatma', 25)";

stmt.executeUpdate(sql);

sql = "INSERT INTO Registration " +

"VALUES (102, 'Zaid', 'Khan', 30)";

stmt.executeUpdate(sql);

sql = "INSERT INTO Registration " +

"VALUES(103, 'Sumit', 'Mittal', 28)";

stmt.executeUpdate(sql);

System.out.println("Inserted records into the table...");

}catch(SQLException se){

se.printStackTrace();

}catch(Exception e){

e.printStackTrace();

}finally{

try{

if(stmt!=null)

conn.close();

}catch(SQLException se){

}

try{

if(conn!=null)

conn.close();

}catch(SQLException se){

se.printStackTrace();

}

}

System.out.println("Goodbye!");

}

}

6.Delete data to MySql Table

import java.sql.\*;

public class DeleteData{

static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost/STUDENTS";

static final String USER = "username";

static final String PASS = "password";

public static void main(String[] args) {

Connection conn = null;

Statement stmt = null;

try{

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

System.out.println("Connecting to a selected database...");

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

System.out.println("Connected database successfully...");

System.out.println("Creating statement...");

stmt = conn.createStatement();

String sql = "DELETE FROM Registration " +

"WHERE id = 101";

stmt.executeUpdate(sql);

sql = "SELECT id, first, last, age FROM Registration";

ResultSet rs = stmt.executeQuery(sql);

while(rs.next()){

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

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

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

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

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

System.out.print(", Age: " + age);

System.out.print(", First: " + first);

System.out.println(", Last: " + last);

}

rs.close();

}catch(SQLException se){

}catch(Exception e){

}finally{

try{

if(stmt!=null)

conn.close();

}catch(SQLException se){

}

try{

if(conn!=null)

conn.close();

}catch(SQLException se){

}

}

System.out.println("Goodbye!");

}

}

7.Search Data to MySql Table

import java.sql.\*;

public class SearchData {

static final String JDBC\_DRIVER = "com.mysql.jdbc.Driver";

static final String DB\_URL = "jdbc:mysql://localhost/STUDENTS";

static final String USER = "username";

static final String PASS = "password";

public static void main(String[] args) {

Connection conn = null;

Statement stmt = null;

try{

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

System.out.println("Connecting to a selected database...");

conn = DriverManager.getConnection(DB\_URL, USER, PASS);

System.out.println("Connected database successfully...");

System.out.println("Creating statement...");

stmt = conn.createStatement();

System.out.println("Fetching records without condition...");

String sql = "SELECT id, first, last, age FROM Registration";

ResultSet rs = stmt.executeQuery(sql);

while(rs.next()){

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

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

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

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

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

System.out.print(", Age: " + age);

System.out.print(", First: " + first);

System.out.println(", Last: " + last);

}

System.out.println("Fetching records with condition...");

sql = "SELECT id, first, last, age FROM Registration" +

" WHERE id >= 101 ";

rs = stmt.executeQuery(sql);

while(rs.next()){

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

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

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

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

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

System.out.print(", Age: " + age);

System.out.print(", First: " + first);

System.out.println(", Last: " + last);

}

rs.close();

}catch(SQLException se){

se.printStackTrace();

}catch(Exception e){

e.printStackTrace();

}finally{

try{

if(stmt!=null)

conn.close();

}catch(SQLException se){

}

try{

if(conn!=null)

conn.close();

}catch(SQLException se){

se.printStackTrace();

}

}

System.out.println("Goodbye!");

}

}