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/*
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Batch: B4
*/
// Aim : Design a Distributed Application using Message passing Interface for remote computation
Server.java
import java.sql.*;
import java.sql.Connection;
import java.rmi.*;
import java.rmi.Naming.*;
import java.rmi.server.*;
import java.rmi.registry.*;
import java.util.Vector;
interface DBInterface extends Remote {
  public String input(String name1) throws RemoteException;
}
public class Server extends UnicastRemoteObject implements DBInterface {
  int flag = 0, n, i, j;
  String name3;
  ResultSet r;
  public String reverse_str(String s1) {
     char ch[] = s1.toCharArray();
     String rev = "";
     for (int i = \text{ch.length} - 1; i \ge 0; i - 1) {
       rev += ch[i];
     }
     return rev;
  }
  public Server() throws RemoteException {
     try {
       System.out.println("InitializingServer\nServerReady");
     } catch (Exception e) {
```

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System.out.println("ERROR:" + e.getMessage());
     }
  }
  public static void main(String[] args) {
     try {
       Server rs = new Server();
       java.rmi.registry.LocateRegistry.createRegistry(1030).rebind("DBServ",
            rs);
     } catch (Exception e) {
       System.out.println("ERROR:" + e.getMessage());
     }
  }
  public String input(String name1) {
     try {
       name3 = reverse_str(name1);
       // name3=name1.concat(name2);
     } catch (Exception e) {
       System.out.println("ERROR:" + e.getMessage());
     }
     return name3;
  }
Client.java
import java.sql.*;
import java.rmi.*;
import java.io.*;
import java.util.*;
import java.util.Vector.*;
import java.lang.*;
import java.rmi.registry.*;
public class Client {
  static String name1, name2, name3;
```

}

```
public static void main(String args[]) {
  Client c = new Client();
  BufferedReader b = new BufferedReader(new InputStreamReader(System.in));
  int ch;
  try {
     Registry r1 = LocateRegistry.getRegistry("localhost", 1030);
     DBInterface DI = (DBInterface) r1.lookup("DBServ");
     do {
       // System.out.println("\n:Menu:" + "\n1.Send Input Strings\n2.Display
       // ConcatenatedString\n" + "\nEnteryourchoice:");
       System.out.println("\n\t\t*** Menu ***");
       System.out.println("\n 1.Send Input Strings");
       System.out.println("\n 2.Display Reversed String ");
       System.out.println("\n Enter your choice:");
       ch = Integer.parseInt(b.readLine());
       switch (ch) {
          case 1: {
            System.out.println("Enter String:");
            name1 = b.readLine();
            name3 = DI.input(name1);
            break;
          case 2: {
            System.out.println("\nReversed String = " + name3);
            // int i=0;
            // System.out.println(""+name3+"");
            break;
     \} while (ch > 0);
  } catch (Exception e) {
     System.out.println("ERROR:" + e.getMessage());
```

}

Output:

Server.java

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Client.java

