**TERMWORK 4 :**

***PROBLEM DEFINITION:***

Design and Implement an APPLET for any computer game of your choice. Store the user name and the score of each game session in the database (MySQL).

**INTRODUCTION:**

*we are using MySql as the database. So we need to know following informations for the mysql database:*

1. **Driver class:**The driver class for the mysql database is **com.mysql.jdbc.Driver**.
2. **Connection URL:**The connection URL for the mysql database is **jdbc:mysql://localhost:3306/sonoo** where jdbc is the API, mysql is the database, localhost is the server name on which mysql is running, we may also use IP address, 3306 is the port number and sonoo is the database name. We may use any database, in such case, you need to replace the sonoo with your database name.
3. **Username:**The default username for the mysql database is **root**.
4. **Password:**Password is given by the user at the time of installing the mysql database. In this example, password is not set.

**PROGRAM:**

game.java

import java.awt.\*;

import java.awt.event.\*;

import java.applet.\*;

import java.util.\*;

import java.io.\*;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

public class game extends Applet

implements ActionListener

{

String msg=" ";

TextField t1;

TextField t2,t3;

Label l1;

String RES;

String RES1;

String a1;

Button clear,result;

private Connection con;

private Statement st;

private ResultSet rs;

public void init()

{

Color k=new Color(120,89,90);

setBackground(k);

// l1=new Label("ANY NUMBER");

t1=new TextField("ENTER ANY NUMBER");

t2=new TextField("SCORE");

t3=new TextField("enter your name");

result=new Button("result");

add(t1);

add(t2);

add(t3);

//add(clear);

add(result);

//add(l1);

t1.addActionListener(this);

t2.addActionListener(this);

t3.addActionListener(this);

result.addActionListener(this);

try{

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

con =DriverManager.getConnection("jdbc:mysql://localhost:3306/random","root","");

st=con.createStatement();

}catch(Exception ex){

System.out.println("Erro:"+ex);

}

}

public void getData(String a1,String RES,String RES1){

try{

String query="INSERT INTO score(name,win,loss) VALUE ('"+a1+"','"+RES+"','"+RES1+"');";

st.executeUpdate(query);

}catch(Exception ex){

System.out.println("Erro:"+ex);

}

}

public void actionPerformed(ActionEvent e)

{

Random t = new Random();

int a=t.nextInt(2);

System.out.println(a);

String s1=t1.getText();

int z=Integer.parseInt(s1);

if(e.getSource()==result)

{

if(z==a)

{

t2.setText("you win");//score=1

}

else

{

t2.setText("you lose");//score=0

}

}

a1=t3.getText();//username

String a2=t2.getText();//score

if(a2.equals("you win"))

{

RES="1";

RES1="0";

}

if(a2.equals("you lose"))

{

RES="0";

RES1="1";

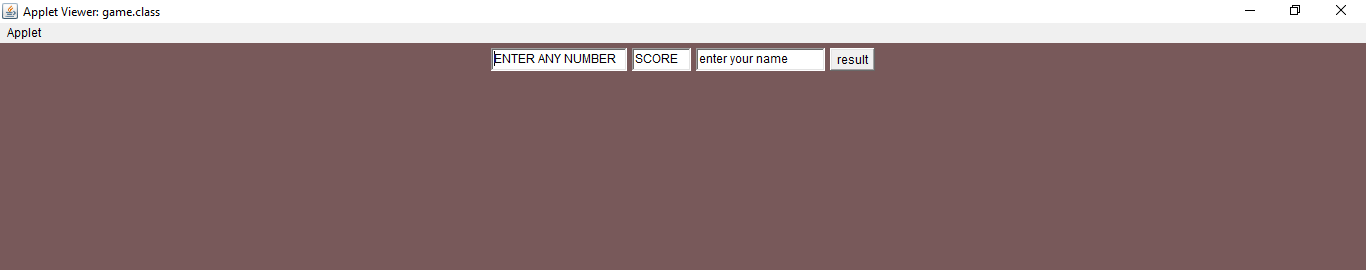
}

getData(a1, RES, RES1);

}

}

**OUTPUT(SCREENSHOT):**

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