

**Code:**

package attendancesystem;

import java.sql.\*;

import java.util.Scanner;

public class AttendanceSystem {

public static void main(String[] args) {

try

{

int i,rows = 6;

Scanner sc = new Scanner(System.in);

// loading thejdbc odbc driver

Class.forName("sun.jdbc.odbc.JdbcOdbcDriver");

// creating connection toth data base

Connection con = DriverManager.getConnection("jdbc:odbc:attendance","","");

Statement st = con.createStatement();

// create an execute sql command on database

ResultSet rs = st.executeQuery("Select \* from attendance order by ID");

ResultSetMetaData rsmd = rs.getMetaData();

// this getColumnCount reurn the number of column in the selected table

int numberOfColumns = rsmd.getColumnCount();

Double m1[] = new Double[rows];

Double m2[] = new Double[rows];

Double m3[] = new Double[rows];

String defaulter[] = new String[rows];

int j=0;

while(rs.next()){

for (i = 1; i <= numberOfColumns; i++)

{

if (i > 1)

System.out.print("\t ");

String columnValue = rs.getString(i);

//System.out.print(columnValue);

if(i==2)

m1[j] = Double.parseDouble(columnValue);

if(i==3)

m2[j] = Double.parseDouble(columnValue);

if(i==4)

m3[j] = Double.parseDouble(columnValue);

if(i==5)

defaulter[j] = columnValue;

}

j++;

}

System.out.println("Month1\tMonth2\tMonth\tDefaulter");

for(i=0;i<rows;i++)

System.out.println(m1[i]+"\t"+m2[i]+"\t"+m3[i]+"\t"+defaulter[i]);

System.out.println("\n\nProvide the attendance for below mentioned months");

System.out.println("Month1: ");

Double im1 = sc.nextDouble();

System.out.println("Month2: ");

Double im2 = sc.nextDouble();

System.out.println("Month3: ");

Double im3 = sc.nextDouble();

int m1Y = 0, m2Y = 0, m3Y = 0, y = 0, n = 0, m1N = 0, m2N = 0, m3N = 0;

for(i=0;i<rows;i++)

{

//for probabilities of yes'

if(Double.compare(im1, m1[i])>0 || Double.compare(im1, m1[i])==0 )

if( defaulter[i].equalsIgnoreCase("yes"))

m1Y++;

if(Double.compare(im2, m2[i])>=0 || Double.compare(im1, m2[i])==0 )

if( defaulter[i].equalsIgnoreCase("yes"))

m2Y++;

if(Double.compare(im3, m3[i])>=0 || Double.compare(im3, m3[i])==0 )

if( defaulter[i].equalsIgnoreCase("yes"))

m3Y++;

//for probabilities of no's

if(Double.compare(im1, m1[i])>0 || Double.compare(im1, m1[i])==0 )

if( defaulter[i].equalsIgnoreCase("no"))

m1N++;

if(Double.compare(im2, m2[i])>=0 || Double.compare(im2, m2[i])==0 )

if( defaulter[i].equalsIgnoreCase("no"))

m2N++;

if(Double.compare(im3, m3[i])>=0 || Double.compare(im3, m3[i])==0 )

if( defaulter[i].equalsIgnoreCase("no"))

m3N++;

//for yes' and no's

if(defaulter[i].equalsIgnoreCase("yes"))

y++;

if(defaulter[i].equalsIgnoreCase("no"))

n++;

}

System.out.println(m1Y+" "+m2Y+" "+m3Y+" "+m1N+" "+m2N+" "+m3N+" "+y+" "+n);

double tyes=((double)m1Y/y)\*((double)m1Y/y)\*((double)m3Y/y)\*((double)y/rows);

double tno=((double)m1N/n)\*((double)m1N/n)\*((double)m3N/n)\*((double)n/rows);

System.out.print("\nP(X|Yes)\*P(Yes) : "+tyes+"\nP(X|No)\*P(No) : "+tno);

if(tyes>=tno)

System.out.println("\n\nStudent is a defaulter");

else System.out.println("\n\nStudent isn't a defaulter");

st.close();

con.close();

} catch (ClassNotFoundException | SQLException | NumberFormatException ex)

{

System.err.print("Exception: ");

System.err.println(ex.getMessage());

}

}

}

**Output:**

