**15IT402-Internet and Java Programming Assignment**

# Program 1

import java.util.Scanner;

class Employee{

/\*\*

This Program calculate the gross pay and then tax amount is found out.Netpay is found by finding the difference between gpay and tax.

@since 2020-04-07

@author aumrudh

\*/

private int eno;

private String name;

private float hra;

private float da;

private float allo;

private float bpay;

private float gpay;

private float tax;

private float npay;

private float annualinc;

public Employee(int eno,String name,float hra,float da,float allo,float bpay){

this.eno=eno;

this.name=name;

this.hra=hra;

this.da=da;

this.allo=allo;

this.bpay=bpay;

}

public int getEno() {

return eno;

}

public String getName() {

return name;

}

public float getHra() {

return hra;

}

public float getDa() {

return da;

}

public float getAllo() {

return allo;

}

public float getBpay() {

return bpay;

}

public float getGpay() {

return gpay;

}

public float getTax() {

return tax;

}

public float getNpay() {

return npay;

}

public float getAnnualinc() {

return annualinc;

}

public void setGpay(float gpay) {

this.gpay = gpay;

}

public void setTax(float tax) {

this.tax = tax;

}

public void setNpay(float npay) {

this.npay = npay;

}

public void setAnnualinc(float annualinc) {

this.annualinc = annualinc;

}

public void calculate(){

float tgpay=getBpay()+(getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo());

//System.out.println("Gross Pay : "+tgpay);

setGpay(tgpay);

float ttax=0.0f;

if(getGpay()<=50000.00f){

ttax=0.0f;

}

if(getGpay()>50000.00f && getGpay()<=60000.00f){

ttax=0.1f\*((getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo()));

}

if(getGpay()>60000.00f && getGpay()<= 150000.00f){

ttax=0.2f\*((getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo()));

}

if(getGpay()>150000.00f){

ttax=0.3f\*((getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo()));

}

setTax(ttax);

System.out.println("The Income Tax is : "+ttax);

float tnpay=tgpay-ttax;

setNpay(tnpay);

float tai=tnpay\*12;

setAnnualinc(tai);

}

}

public class EmployeeTest{

public static void main(String args[]){

Scanner ip=new Scanner(System.in);

System.out.print("Enter id : ");

int ti=ip.nextInt();

System.out.print("Enter name : ");

String tn=ip.next();

System.out.print("Enter hra : ");

float th=ip.nextFloat();

System.out.print("Enter da : ");

float td=ip.nextFloat();

System.out.print("Enter allowance : ");

float ta=ip.nextFloat();

System.out.print("Enter BasicPay : ");

float tb=ip.nextFloat();

Employee obj=new Employee(ti,tn,th,td,ta,tb);

obj.calculate();

}

}

# Program 2

import java.util.Scanner;

class Bank{

/\*\*

This Program is simulation of bank account.Withdrawal, Deposit is done.

@since 2020-04-07

@author aumrudh

\*/

private int aid;

private String name;

private float balance;

public Bank(int aid,String name,float balance){

this.aid=aid;

this.name=name;

this.balance = balance;

}

public void deposit(float amount){

balance = balance + amount;

System.out.println("Deposit finshed");

}

public void withdraw(float amount){

if(balance-amount>1000){

balance = balance - amount;

System.out.println("Withdraw done");

}

else{

System.out.println("Insufficent Balance !");

}

}

public float getBalance() {

return balance;

}

}

public class BankTest{

public static void main(String args[]){

Scanner ip=new Scanner(System.in);

System.out.print("Enter Id : ");

int ti=ip.nextInt();

System.out.print("Enter name : ");

String tn=ip.next();

System.out.print("Enter Initial Amount : ");

float ta=ip.nextFloat();

Bank obj=new Bank(ti,tn,ta);

while(true){

System.out.print("1-Deposit\n2-Withdraw\n3-Available balance\nEnter Your choice : ");

int ch=ip.nextInt();

if(ch==1){

System.out.print("Enter Deposit Amount : ");

float td=ip.nextFloat();

obj.deposit(td);

}

if(ch==2){

System.out.print("Enter Withdraw Amount : ");

float tw=ip.nextFloat();

obj.withdraw(tw);

}

if(ch==3){

System.out.println("The balance Amount is : "+obj.getBalance());

}

}

}

}

# Program 3

import java.util.Scanner;

class Clock{

/\*\*

This Program gets hours minutes and second as input and is passed into constructor and then checking if inputs are wrong and finally set the time according to inputs as AM or PM.

@since 2020-04-07

@author aumrudh

\*/

private int hour;

private int min;

private int sec;

private String format;

public Clock(int hour,int min,int sec){

this.hour=hour;

this.min=min;

this.sec=sec;

}

public boolean check(){

if(hour>24){

System.out.println("Invalid Hour");

return false;

}

else if(min>60){

System.out.println("Invalid Minutes");

return false;

}

else if(sec>60){

System.out.println("Invalid Seconds");

return false;

}

else{

return true;

}

}

public void setTime(){

if(hour>=12){

format="PM";

hour=hour-12;

}

else{

format="AM";

}

System.out.println("Time");

System.out.println(hour+":"+min+":"+sec+" "+format);

}

}

public class ClockTest{

public static void main(String args[]){

Scanner ip=new Scanner(System.in);

System.out.print("Enter Hour : ");

int th=ip.nextInt();

System.out.print("Enter Minute : ");

int tm=ip.nextInt();

System.out.print("Enter Second : ");

int ts=ip.nextInt();

Clock obj=new Clock(th,tm,ts);

if(obj.check()){

obj.setTime();

}

else{

System.out.println("Please Change Accordingly As mentioned Above");

}

}

}

# Program 4

import java.util.Scanner;

abstract class Employee{

/\*\*

This Program wil calculate the gross pay and then tax amount is found out.Netpay is found by finding the difference between gpay and tax.Here abstract methods are used.

@since 2020-04-08

@author aumrudh

\*/

private int eno;

private String name;

private float hra;

private float da;

private float allo;

private float bpay;

private float gpay;

private float tax;

private float npay;

public Employee(int eno,String name,float hra,float da,float allo,float bpay){

this.eno=eno;

this.name=name;

this.hra=hra;

this.da=da;

this.allo=allo;

this.bpay=bpay;

}

public int getEno() {

return eno;

}

public String getName() {

return name;

}

public float getHra() {

return hra;

}

public float getDa() {

return da;

}

public float getAllo() {

return allo;

}

public float getBpay() {

return bpay;

}

public float getGpay() {

return gpay;

}

public float getTax() {

return tax;

}

public float getNpay() {

return npay;

}

public void setGpay(float gpay) {

this.gpay = gpay;

}

public void setTax(float tax) {

this.tax = tax;

}

public void setNpay(float npay) {

this.npay = npay;

}

public abstract void calculate();

public abstract void display();

}

class DriveManager extends Employee{

public DriveManager(int eno,String name,float hra,float da,float allo,float bpay){

super(eno,name,hra,da,allo,bpay);

}

public void calculate(){

float tgpay=getBpay()+(getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo());

setGpay(tgpay);

float ttax=0.0f;

if(getGpay()<=50000.00f){

ttax=0.0f;

}

if(getGpay()>50000.00f && getGpay()<=60000.00f){

ttax=0.1f\*((getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo()));

}

if(getGpay()>60000.00f && getGpay()<= 150000.00f){

ttax=0.2f\*((getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo()));

}

if(getGpay()>150000.00f){

ttax=0.3f\*((getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo()));

}

setTax(ttax);

float tnpay=tgpay-ttax;

setNpay(tnpay);

}

public void display(){

System.out.println("---------------------------------------------------------------\n");

System.out.println("Eid Name\t BASICPAY GROSSPAY NETPAY\n");

System.out.println("---------------------------------------------------------------\n");

System.out.println(+getEno()+" "+getName()+"\t"+getBpay()+"\t"+getGpay()+"\t"+getNpay());

}

}

class Clerk extends Employee{

public Clerk(int eno,String name,float hra,float da,float allo,float bpay){

super(eno,name,hra,da,allo,bpay);

}

public void calculate(){

float tgpay=getBpay()+(getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo());

setGpay(tgpay);

float ttax=0.0f;

if(getGpay()<=50000.00f){

ttax=0.0f;

}

if(getGpay()>50000.00f && getGpay()<=60000.00f){

ttax=0.1f\*((getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo()));

}

if(getGpay()>60000.00f && getGpay()<= 150000.00f){

ttax=0.2f\*((getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo()));

}

if(getGpay()>150000.00f){

ttax=0.3f\*((getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo()));

}

setTax(ttax);

float tnpay=tgpay-ttax;

setNpay(tnpay);

}

public void display(){

System.out.println("---------------------------------------------------------------\n");

System.out.println("Eid Name\t BASICPAY GROSSPAY NETPAY\n");

System.out.println("---------------------------------------------------------------\n");

System.out.println(+getEno()+" "+getName()+"\t"+getBpay()+" "+getGpay()+" "+getNpay());

}

}

public class EmployeeAbstractTest{

public static void main(String args[]){

Scanner ip=new Scanner(System.in);

System.out.print("Enter id : ");

int ti=ip.nextInt();

System.out.print("Enter name : ");

String tn=ip.next();

System.out.print("Enter hra : ");

float th=ip.nextFloat();

System.out.print("Enter da : ");

float td=ip.nextFloat();

System.out.print("Enter allowance : ");

float ta=ip.nextFloat();

System.out.print("Enter BasicPay : ");

float tb=ip.nextFloat();

DriveManager obj=new DriveManager(ti,tn,th,td,ta,tb);

obj.calculate();

obj.display();

System.out.print("\nEnter id : ");

int tii=ip.nextInt();

System.out.print("Enter name : ");

String tni=ip.next();

System.out.print("Enter hra : ");

float thi=ip.nextFloat();

System.out.print("Enter da : ");

float tdi=ip.nextFloat();

System.out.print("Enter allowance : ");

float tai=ip.nextFloat();

System.out.print("Enter BasicPay : ");

float tbi=ip.nextFloat();

Clerk obj1=new Clerk(tii,tni,thi,tdi,tai,tbi);

obj1.calculate();

obj1.display();

}

}

# Program 5

import java.util.Scanner;

public class SquareTest{

/\*\*This program will generate and print square of natural numbers until 10.if n exceeds 10 then expection thrown.

This Program

@since 2020-04-08

@author aumrudh

\*/

public static void main(String args[]){

Scanner ip=new Scanner(System.in);

int count=0;

System.out.print("Enter n value :");

try{

int n=ip.nextInt();

int arr[]=new int[10];

if(n>10)

{

throw new ArrayIndexOutOfBoundsException();

}

else{

System.out.println("Square of first 10 natural numbers");

for(int i=1;i<=n;i++){

count++;

arr[i-1]=count\*count;

}

for(int i=0;i<n;i++){

System.out.println(arr[i]);

}

}

}

catch(Exception e){

System.out.println(e);

}

}

}

# Program 7

import java.util.Scanner;

import java.applet.\*;

import java.awt.\*;

import java.awt.event.\*;

import java.io.\*;

public class MaxTest extends Applet implements ActionListener{

/\*\*

This Program find the maximum of three numbers whose input is got from html file.The Maximum of three number is set in the textbox.

@since 2020-04-08

@author aumrudh

\*/

TextField t1,t2,t3,t4;

Label l1,l2,l3,l4;

Button b1,b2;

public void init() {

Frame title = (Frame)this.getParent().getParent();

title.setTitle("Maximum of Three Numbers");

l1=new Label("First No.");

add(l1);

t1=new TextField(10);

add(t1);

l2=new Label("Second No.");

add(l2);

t2=new TextField(10);

add(t2);

l3=new Label("Third No.");

add(l3);

t3=new TextField(10);

add(t3);

l4=new Label("Maximum No.");

add(l4);

t4=new TextField(10);

add(t4);

b1=new Button("Set Values");

b2=new Button("Find Maximum");

add(b1);

add(b2);

b1.addActionListener(this);

b2.addActionListener(this);

//setBackground(new Color(0,0,0));

}

public void paint(Graphics g){

showStatus("Aumrudh");

}

public void actionPerformed(ActionEvent e) {

if(e.getSource()==b1){

try{

Scanner ip=new Scanner(new File("maxnos.html"));

int a=ip.nextInt();

int b=ip.nextInt();

int c=ip.nextInt();

t1.setText(" "+a);

t2.setText(" "+b);

t3.setText(" "+c);

}

catch(Exception ee){

System.out.println("Invalid File\n"+ee);

}

}

if(e.getSource()==b2){

try{

Scanner ip=new Scanner(new File("maxnos.html"));

int a=ip.nextInt();

int b=ip.nextInt();

int c=ip.nextInt();

if(a>b && a>c){

t4.setText(" "+a);

}

else if(b>a && b>c){

t4.setText(" "+b);

}

else{

t4.setText(" "+c);

}

}

catch(Exception ee){

System.out.println("Invalid File"+ee);

}

}

}

}

/\*<applet code="MaxTest.class" width="1000" height="50">

</applet>\*/

# Program 8

import java.awt.\*;

import java.awt.event.\*;

import java.applet.\*;

public class BackgroundTest extends Applet implements ActionListener{

/\*\*

This Program is to set background of text area in applet window on our wish.

@since 2020-04-08

@author aumrudh

\*/

Button[] colors;

TextArea ta;

Panel bp,pp;

public void init(){

Frame title = (Frame)this.getParent().getParent();

title.setTitle("Background Set");

bp=new Panel();

colors=new Button[3];

colors[0]=new Button("Red");

colors[1]=new Button("Green");

colors[2]=new Button("Blue");

for(int i=0;i<3;i++){

colors[i].addActionListener(this);

bp.add(colors[i]);

}

ta=new TextArea(7,25);

ta.setFont(new Font("Courier New",Font.BOLD,25));

pp=new Panel();

pp.setLayout(new java.awt.BorderLayout());

pp.add(ta,BorderLayout.CENTER);

pp.add(bp,BorderLayout.SOUTH);

add(pp);

}

public void paint(Graphics g){

showStatus("Aumrudh");

}

public void actionPerformed(ActionEvent e){

if(e.getSource()==colors[0]){

ta.setBackground(Color.red);

}

if(e.getSource()==colors[1]){

ta.setBackground(Color.blue);

}

if(e.getSource()==colors[2]){

ta.setBackground(Color.green);

}

}

}

/\*<applet code="BackgroundTest.class" width="1000" height="500">

</applet>\*/

# Program 9

import java.sql.\*;

import java.util.Scanner;

public class EmployeeDB{

/\*\*This program makes connection to a database of Microsoft access, named employee. The table has field’s empno, empname, salary, designation, and department.The records where department is computer & designation is System Analyst is displayed.

@since 2020-04-09

@author aumrudh

\*/

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

Scanner ip=new Scanner(System.in);

try{

Class.forName("net.ucanaccess.jdbc.UcanaccessDriver");

String url = "jdbc:ucanaccess://C:\\Users\\Aumrudh Lal Kumar TJ\\Documents\\employee.mdb";

Connection con=DriverManager.getConnection(url);

Statement smt=con.createStatement();

while(true){

System.out.println("1-Insert\n2-Display\n3-Exit");

System.out.print("Enter your choice : ");

int ch=ip.nextInt();

if(ch==1){

System.out.print("Enter employee Id : ");

int id=ip.nextInt();

System.out.print("Enter employee Name : ");

String name=ip.next();

System.out.print("Enter employee Salary : ");

int sal=ip.nextInt();

System.out.print("Enter employee Designation : ");

String des=ip.next();

ip.nextLine();

System.out.print("Enter employee Department : ");

String dep=ip.next();

smt.executeUpdate("INSERT INTO employee VALUES("+id+",'"+name+"',"+sal+",'"+des+"','"+dep+"')");

}

else if(ch==2){

String td="System Analyst";

String tdp="computer";

ResultSet rs=smt.executeQuery("Select \* from employee where Department='"+tdp+"' and Designation='"+td+"'");

while(rs.next()){

System.out.print(rs.getString(1));

System.out.print(rs.getString(2));

System.out.print(rs.getString(3));

System.out.print(rs.getString(4));

System.out.println(rs.getString(5));

}

}

else if(ch==3){

break;

}

else{

System.out.println("Wrong Choice");

}

}

}

catch(Exception e){

System.out.print(e);

}

}

}

# Program 10

import java.util.Scanner;

class Employee{

/\*\*This program will calculate the gross pay (pf)and then total allowance is found out.Object is stored in temparary variable and then returned and displayed.

@since 2020-04-09

@author aumrudh

\*/

private int eno;

private String name;

private float hra;

private float da;

private float allo;

private float bpay;

private float gpay; //profitable fund

private float totall; //total allowance

public Employee(){

eno=0;

name="";

hra=0.0f;

da=0.0f;

allo=0.0f;

bpay=0.0f;

}

public Employee(int eno,String name,float hra,float da,float allo,float bpay){

this.eno=eno;

this.name=name;

this.hra=hra;

this.da=da;

this.allo=allo;

this.bpay=bpay;

}

public int getEno() {

return eno;

}

public String getName() {

return name;

}

public float getHra() {

return hra;

}

public float getDa() {

return da;

}

public float getAllo() {

return allo;

}

public float getBpay() {

return bpay;

}

public float getGpay() {

return gpay;

}

public float getTotall() {

return totall;

}

public void setGpay(float gpay) {

this.gpay = gpay;

}

public void setTotall(float totall) {

this.totall = totall;

}

public Employee calculate(){

float tgpay=getBpay()+(getBpay()\*getHra())+(getBpay()\*getDa())+(getBpay()\*getAllo());

setGpay(tgpay);

float tall= tgpay-getBpay();

setTotall(tall);

Employee tobj=new Employee(getEno(),getName(),getHra(),getDa(),getAllo(),getBpay());

tobj.setGpay(tgpay);

tobj.setTotall(tall);

return tobj;

}

public void display(){

System.out.println("---------------------------------------------------------------\n");

System.out.println("Eid Name\t BASICPAY GROSSPAY Allowance\n");

System.out.println("---------------------------------------------------------------\n");

System.out.println(+getEno()+" "+getName()+"\t"+getBpay()+"\t\t"+getGpay()+"\t\t"+getTotall());

}

}

public class EmployeeSalaryTest{

public static void main(String args[]){

Scanner ip=new Scanner(System.in);

System.out.print("Enter n value : ");

int n=ip.nextInt();

Employee obj[]=new Employee[n];

for(int i=0;i<n;i++){

System.out.print("Enter id : ");

int ti=ip.nextInt();

System.out.print("Enter name : ");

String tn=ip.next();

System.out.print("Enter hra : ");

float th=ip.nextFloat();

System.out.print("Enter da : ");

float td=ip.nextFloat();

System.out.print("Enter allowance : ");

float ta=ip.nextFloat();

System.out.print("Enter BasicPay : ");

float tb=ip.nextFloat();

obj[i]=new Employee(ti,tn,th,td,ta,tb);

Employee to= new Employee();

to=obj[i].calculate();

to.display();

}

}

}

# Program 11

import java.util.Scanner;

class Student{

int rno;

String name;

Student(){

rno=0;

name=" ";

}

Student(int rno,String name){

this.rno=rno;

this.name=name;

}

public boolean isEqual(Student a,Student b){

if(a.rno==b.rno && a.name.equals(b.name)){

return true;

}

else{

return false;

}

}

}

public class StudentTest{

public static void main(String args[]){

Scanner ip=new Scanner(System.in);

System.out.print("Enter 1st Student id : ");

int id1=ip.nextInt();

System.out.print("Enter 1st Student name : ");

String n1=ip.next();

Student a=new Student(id1,n1);

System.out.print("Enter 2nd Student id : ");

int id2=ip.nextInt();

System.out.print("Enter 2nd Student name : ");

String n2=ip.next();

Student b=new Student(id2,n2);

Student check=new Student();

if(check.isEqual(a,b)){

System.out.print("Both are equal");

}

else{

System.out.print("Not equal");

}

}

}

# Program 12

import java.awt.Dimension;

import java.sql.Connection;

import java.sql.DriverManager;

import java.sql.ResultSet;

import java.sql.Statement;

import javax.swing.JOptionPane;

/\*\*This program has login form . It has sign in and sign up.

\* @since 2020-04-08

\* @author Aumrudh Lal Kumar TJ

\*/

public class home extends javax.swing.JFrame {

public home() {

setPreferredSize(new Dimension(550, 400));

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

signup = new javax.swing.JButton();

signin = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

signup.setText("Sign Up");

signup.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

signupActionPerformed(evt);

}

});

signin.setText("Sign In");

signin.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

signinActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(165, 165, 165)

.addComponent(signup)

.addGap(51, 51, 51)

.addComponent(signin)

.addContainerGap(181, Short.MAX\_VALUE))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(163, 163, 163)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(signup)

.addComponent(signin))

.addContainerGap(214, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void signupActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

this.setVisible(false);

new signup().setVisible(true);

}

private void signinActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

this.setVisible(false);

new signin().setVisible(true);

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

new home().setVisible(true);

}

// Variables declaration - do not modify

private javax.swing.JButton signin;

private javax.swing.JButton signup;

// End of variables declaration

}

class signin extends javax.swing.JFrame {

/\*\*

\* Creates new form signin

\*/

public signin() {

setPreferredSize(new Dimension(450, 300));

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

userlabel = new javax.swing.JLabel();

passlabel = new javax.swing.JLabel();

passfield = new javax.swing.JPasswordField();

usernametf = new javax.swing.JTextField();

signin = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

userlabel.setText("Username");

passlabel.setText("Password");

signin.setText("Sign In");

signin.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

signinActionPerformed(evt);

}

});

javax.swing.GroupLayout layout = new javax.swing.GroupLayout(getContentPane());

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(79, 79, 79)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(userlabel, javax.swing.GroupLayout.DEFAULT\_SIZE, 71, Short.MAX\_VALUE)

.addComponent(passlabel, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

.addPreferredGap(javax.swing.LayoutStyle.ComponentPlacement.UNRELATED)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(passfield, javax.swing.GroupLayout.DEFAULT\_SIZE, 124, Short.MAX\_VALUE)

.addComponent(usernametf))

.addContainerGap(154, Short.MAX\_VALUE))

.addGroup(javax.swing.GroupLayout.Alignment.TRAILING, layout.createSequentialGroup()

.addContainerGap(javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(signin, javax.swing.GroupLayout.PREFERRED\_SIZE, 99, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addGap(35, 35, 35))

);

layout.setVerticalGroup(

layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(layout.createSequentialGroup()

.addGap(60, 60, 60)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(userlabel, javax.swing.GroupLayout.PREFERRED\_SIZE, 36, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(usernametf, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(32, 32, 32)

.addGroup(layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(passlabel, javax.swing.GroupLayout.PREFERRED\_SIZE, 36, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(passfield, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE))

.addGap(18, 18, 18)

.addComponent(signin, javax.swing.GroupLayout.PREFERRED\_SIZE, 40, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addContainerGap(67, Short.MAX\_VALUE))

);

pack();

}// </editor-fold>

private void signinActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

String user=usernametf.getText();

String pass;

pass = passfield.getText();

if(user.equals("")){

JOptionPane.showMessageDialog(null,"Enter Username ","Alert",JOptionPane.WARNING\_MESSAGE);

}

if(pass.equals("")){

JOptionPane.showMessageDialog(null,"Enter Password ","Alert",JOptionPane.WARNING\_MESSAGE);

}

try{

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/login","root","Jeyakumar28");

Statement smt=conn.createStatement();

ResultSet rs=smt.executeQuery("SELECT password FROM login Where username='"+user+"'");

if(rs.next()){

if(pass.equals(rs.getString("password"))){

JOptionPane.showMessageDialog(null, "Login Succesful", "Welcome " + user.toUpperCase(), JOptionPane.INFORMATION\_MESSAGE);

}

else{

JOptionPane.showMessageDialog(null,"Invalid Password","Login Error",JOptionPane.ERROR\_MESSAGE);

}

}

else{

JOptionPane.showMessageDialog(null,"Username not found","Login Error",JOptionPane.ERROR\_MESSAGE);

}

}

catch(Exception e1){

System.out.print(e1);

}

}

public static void main(String args[]) {

new signin().setVisible(true);

}

// Variables declaration - do not modify

private javax.swing.JPasswordField passfield;

private javax.swing.JLabel passlabel;

private javax.swing.JButton signin;

private javax.swing.JLabel userlabel;

private javax.swing.JTextField usernametf;

// End of variables declaration

}

class signup extends javax.swing.JFrame {

/\*\*

\* Creates new form signup

\*/

public signup() {

setPreferredSize(new Dimension(500,400));

initComponents();

}

@SuppressWarnings("unchecked")

// <editor-fold defaultstate="collapsed" desc="Generated Code">

private void initComponents() {

username = new javax.swing.JLabel();

namel = new javax.swing.JLabel();

jLabel1 = new javax.swing.JLabel();

namet = new javax.swing.JTextField();

usert = new javax.swing.JTextField();

passt = new javax.swing.JPasswordField();

signup = new javax.swing.JButton();

setDefaultCloseOperation(javax.swing.WindowConstants.EXIT\_ON\_CLOSE);

getContentPane().setLayout(null);

username.setText("Username");

getContentPane().add(username);

username.setBounds(69, 130, 118, 35);

namel.setText("Name");

getContentPane().add(namel);

namel.setBounds(69, 74, 107, 38);

jLabel1.setText("Password");

getContentPane().add(jLabel1);

jLabel1.setBounds(69, 183, 94, 40);

getContentPane().add(namet);

namet.setBounds(181, 74, 120, 22);

usert.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

usertActionPerformed(evt);

}

});

getContentPane().add(usert);

usert.setBounds(180, 140, 120, 22);

getContentPane().add(passt);

passt.setBounds(181, 192, 120, 22);

signup.setText("Sign Up");

signup.addActionListener(new java.awt.event.ActionListener() {

public void actionPerformed(java.awt.event.ActionEvent evt) {

signupActionPerformed(evt);

}

});

getContentPane().add(signup);

signup.setBounds(329, 260, 90, 40);

pack();

}// </editor-fold>

private void usertActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

}

private void signupActionPerformed(java.awt.event.ActionEvent evt) {

String name=namet.getText();

String user=usert.getText();

String pass = passt.getText();

if(name.equals("")){

JOptionPane.showMessageDialog(null,"Enter Username ","Alert",JOptionPane.WARNING\_MESSAGE);

}

if(user.equals("")){

JOptionPane.showMessageDialog(null,"Enter Password ","Alert",JOptionPane.WARNING\_MESSAGE);

}

if(pass.equals("")){

JOptionPane.showMessageDialog(null,"Enter Password ","Alert",JOptionPane.WARNING\_MESSAGE);

}

try{

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

Connection conn=DriverManager.getConnection("jdbc:mysql://localhost:3306/login","root","Jeyakumar28");

Statement smt=conn.createStatement();

Statement smt1=conn.createStatement();

ResultSet rs=smt.executeQuery("SELECT \* FROM login");

if(rs.next()){

if(name.equals(rs.getString("name"))){

JOptionPane.showMessageDialog(null,"Name already exist ","Error",JOptionPane.ERROR\_MESSAGE);

}

}

int tt=smt1.executeUpdate("Insert into login values('"+user+"','"+pass+"','"+name+"')");

if(tt==1){

JOptionPane.showMessageDialog(null,user+" Register successful");

}

else{

JOptionPane.showMessageDialog(null,"Enter Password ","Alert",JOptionPane.WARNING\_MESSAGE);

}

namet.setText("");

usert.setText("");

passt.setText("");

}

catch(Exception e1){

System.out.print(e1);

}

}

public static void main(String args[]) {

new signup().setVisible(true);

}

// Variables declaration - do not modify

private javax.swing.JLabel jLabel1;

private javax.swing.JLabel namel;

private javax.swing.JTextField namet;

private javax.swing.JPasswordField passt;

private javax.swing.JButton signup;

private javax.swing.JLabel username;

private javax.swing.JTextField usert;

// End of variables declaration

}