JAVA QUESTION

Question 1……

public class Question1

{

public static void main(String[] args)

{

String name="kavindu piumal";

System.out.println("My name is "+name);

}

}

Question 2….

import java.util.Scanner;

public class Question2

{

public static void main(String[] args)

{

int n1,n2,n3,calculate;

Scanner c1=new Scanner(System.in);

System.out.println("Enter the first number:");

n1=c1.nextInt();

System.out.println("Second the first number:");

n2=c1.nextInt();

System.out.println("Third the first number:");

n3=c1.nextInt();

calculate=n1+n2+n3;

System.out.println("Answer is "+calculate);

}

}

Question 3….

import java.util.Scanner;

public class Question3

{

public static void main(String[] args)

{

float Celsius,Fahrenheit;

Scanner s1=new Scanner(System.in);

System.out.println("Enter the Fahrenheit value:");

Fahrenheit=s1.nextFloat();

//formula

Celsius=(5/9)\*(Fahrenheit-32);

System.out.println("Celsius value is "+Celsius);

}

}

Question 4…..

package com.mycompany.question4;

import java.util.Scanner;

public class Question4

{

public static void main(String[] args)

{

int n1,n2,n3,sum;

float average;

Scanner s1=new Scanner(System.in);

System.out.println("Enter the n1 number:");

n1=s1.nextInt();

System.out.println("Enter the n2 number:");

n2=s1.nextInt();

System.out.println("Enter the n3 number:");

n3=s1.nextInt();

sum=n1+n2+n3;

System.out.println("Sum is "+sum);

average=sum/3;

System.out.println("Average is "+average);

int max;

max=n1;

if(n2>max)

{

max=n2;

}

if(n3>max)

{

max=n3;

}

System.out.println("Largest number is "+max);

int mini;

mini=n1;

if(n2<mini)

{

mini=n2;

}

if(n3>mini)

{

mini=n3;

}

System.out.println("Smallest number is "+mini);

}

}

Question 5…

package com.mycompany.averagegrades;

import java.util.Scanner;

public class AverageGrades

{

public static void main(String[] args)

{

int[] arr1=new int[20];

int count=0;

//getting user in put

for(int i=0;i<20;i++)

{

Scanner s1=new Scanner(System.in);

arr1[i]=s1.nextInt();

System.out.println( arr1[i]);

while(true)

{

int value=s1.nextInt();

if(value==-1)

{

break;

}

arr1[count++]=value;

}

int total=0;

total=total+arr1[i];

double average=total/20;

System.out.println("Average is "+average);

}

}

}

Question 6…

//main method

package com.mycompany.question6

public class Question6

{

public static void main(String[] args)

{

Date d1=new Date(04,25,2002);

d1.display();

//set method

d1.setdate(13);

d1.setmonth(04);

d1.setyear(2002);

d1.display();

//get method

d1.getdate();

d1.getmonth();

d1.getyear();

}

}

//Date class

package com.mycompany.question6

public class Date

{

//data

private int month,date,year;

//method

public Date(int month,int date,int year)

{

this.date=date;

this.month=month;

this.year=year;

}

public void display()

{

System.out.println("data is "+month+"/ "+date+"/"+year);

}

//getter and setter method

public int getdate()

{

return date;

}

public void setdate(int date)

{

this.date=date;

}

public int getmonth()

{

return month;

}

public void setmonth(int month)

{

this.month=month;

}

public int getyear()

{

return year;

}

public void setyear(int year)

{

this.year=year;

}

}

Question 7..

//main method

package com.mycompany.itemobj;

public class Itemobj

{

public static void main(String[] args)

{

//Item class

Item i1=new Item(12,"This is good product");

i1.description="This is good product";

i1.location=12;

i1.getdescription();

System.out.println(i1.getdescription());

i1.getlocation();

System.out.println(i1.getlocation());

i1.setdescription("This is good product");

i1.setlocation(12);

i1.display();

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

//Monster class

Monster m1=new Monster(34,"good product");

m1.location=34;

m1.description="good product";

m1.getdescription();

System.out.println(m1.getdescription());

m1.getlocation();

System.out.println(m1.getlocation());

m1.setdescription("good product");

m1.setlocation(34);

m1.display();

}

}

//item class

package com.mycompany.itemobj;

public class Item

{

//data

protected int location;

protected String description;

//methods

//parameterized constructor method

public Item(int location,String description)

{

this.location=location;

this.description=description;

}

//gettter ang setter methods

public int getlocation()

{

return location;

}

public void setlocation(int location)

{

this.location=location;

}

public String getdescription()

{

return description;

}

public void setdescription(String description)

{

this.description=description;

}

public void display()

{

System.out.println("Location is "+location);

System.out.println("Description is "+description);

}

}

//Monster class

public class Monster extends Item

{

public Monster(int location, String description)

{

super(location, description);

}

}

Question 8…

package com.mycompany.savingsaccountobj;

public class SavingsAccount

{

//data

private static double annualInterestRate=0.04;

private double savingsBalance;

//method

//parameterized cnstructor

public SavingsAccount(double s\_balance)

{

this.savingsBalance=s\_balance;

}

//calculate the monthly Interest

public void monthlyInterest()

{

double monthlyInterest;

monthlyInterest=savingsBalance\*(annualInterestRate/12);

savingsBalance=savingsBalance+monthlyInterest;

}

public void modifyInterestRate(double mir)

{

annualInterestRate=mir;

}

public double getBalance()

{

return savingsBalance;

}

//main method

package com.mycompany.savingsaccountobj;

public class Savingsaccountobj

{

public static void main(String[] args)

{

//saver1

SavingsAccount saver1=new SavingsAccount(2000.00);

saver1.monthlyInterest();

System.out.println("Balance is "+saver1.getBalance());

saver1.modifyInterestRate(0.05);

saver1.monthlyInterest();

System.out.println("New balance is "+saver1.getBalance());

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

SavingsAccount saver2=new SavingsAccount(3000.00);

saver2.monthlyInterest();

System.out.println("Balance is "+saver2.getBalance());

saver2.modifyInterestRate(0.05);

saver2.monthlyInterest();

System.out.println("New balance is "+saver2.getBalance());

}

}

Question 9

//main method

package com.mycompany.my\_own\_auto\_shop;

public class My\_own\_Auto\_Shop

{

public static void main(String[] args)

{

}

}

//car class

package com.mycompany.my\_own\_auto\_shop;

public class Car

{

//data

private int speed;

protected double regularprice;

private String color;

//method

public Car(int speed,double regularprice,String color)

{

this.speed=speed;

this.regularprice=regularprice;

this.color=color;

}

public double getsaleprice()

{

throw new UnsupportedOperationException();

}

}

//truck class

package com.mycompany.my\_own\_auto\_shop;

public class Truck extends Car

{

//data

private int weight;

//method

public Truck(int speed, double regularprice, String color,int weight)

{

super(speed, regularprice, color);

this.weight=weight;

}

@Override

public double getsaleprice()

{

double saleprice;

if(weight>2000)

{

saleprice=regularprice\*(1-0.05);

}

else

{

saleprice=regularprice\*(1-0.1);

}

return saleprice;

}

}

//Ford class

package com.mycompany.my\_own\_auto\_shop;

public class Ford extends Car

{

//data

private int year;

private int manufacturerdiscount;

public Ford(int speed, double regularprice, String color,int year,int m\_dis)

{

super(speed, regularprice, color);

this.year=year;

this.manufacturerdiscount=m\_dis;

}

@Override

public double getsaleprice()

{

double saleprice=super.getsaleprice();

return saleprice-manufacturerdiscount;

}

}

//Sedan class

package com.mycompany.my\_own\_auto\_shop;

public class Sedan extends Car

{

//data

private int length;

//method

public Sedan(int speed, double regularprice, String color,int length)

{

super(speed, regularprice, color);

this.length=length;

}

@Override

public double getsaleprice()

{

double discount;

if(length>20)

{

discount=regularprice\*0.05;

}

else

{

discount=regularprice\*0.1;

}

return regularprice-discount;

}

}

Question 10..

Question 10 part 1

package com.mycompany.question10;

public class Question10

{

public static void main(String[] args)

{

Shape s1=new Shape();

s1.drow();

s1.erase();

//call circle class

Circle c1=new Circle();

c1.drow();

c1.erase();

//call Triangle class

Triangle t1=new Triangle();

t1.draw();

t1.erase( )

package com.mycompany.question10;

public class Shape

{

public void drow()

{

System.out.println("Drowing the shape");

}

public void erase()

{

System.out.println("Erasing the shape");

}

}

//sub class

package com.mycompany.question10;

public class Circle extends Shape

{

@Override

public void drow()

{

System.out.println("Drowing Circle");

}

@Override

public void erase()

{

System.out.println("Erasing Circle");

}

}

package com.mycompany.question10;

public class Triangle extends Shape

{

public void draw()

{

System.out.println("Drowing Triangle");

}

@Override

public void erase()

{

System.out.println("Erasing triangle");

}

}

package com.mycompany.question10;

public class Square extends Shape

{

public void draw()

{

System.out.println("Drawing Square");

}

@Override

public void erase()

{

System.out.println("erasing Square");

}

}

//question10 Write a program to give a simple example for abstract class.

package com.mycompany.abs10\_1;

abstract public class AbstractClass

{

//create the abstract method

abstract public void name();

//create method

public void country()

{

System.out.println("country is sri lanka");

}

}

Question 10 part 3

//main class

package com.mycompany.question10\_3;

public class Question10\_3

{

public static void main(String[] args)

{

Aclass a1=new Aclass();

a1.debug();

Bclass ba1=new Bclass();

ba1.debug();

}

}

//abstract class

package com.mycompany.question10\_3;

public abstract class BaseClass

{

public void debug()

{

System.out.println("Debugging......");

}

}

//sub class

package com.mycompany.question10\_3;

public class Bclass extends BaseClass

{

}

Question 11..

package com.mycompany.qyestion11;

public class Qyestion11

{

public static void main(String[] args)

{

MyClass m1=new MyClass();

m1.meth1();

m1.meth2();

}

}

//interface

package com.mycompany.qyestion11;

public interface A

{

public void meth1();

public void meth2();

}

//class

package com.mycompany.qyestion11;

public class MyClass implements A

{

@Override

public void meth1()

{

System.out.println("Sri lanka");

}

@Override

public void meth2()

{

System.out.println("colombo");

}

}

//example for multiple inheritance

package com.mycompany.multipleinheritance;

public class MultipleInheritance

{

public static void main(String[] args)

{

ClassA ca1=new ClassA();

ca1.country();

ca1.town();

ca1.village();

}

}

//supper class

package com.mycompany.multipleinheritance;

public class ClassA extends ClassB implements ABC

{

public void country()

{

System.out.println("Country is Sri Lanka");

}

@Override

public void village()

{

System.out.println("Village is Pitipana");

}

}

//sub class

package com.mycompany.multipleinheritance;

public class ClassA extends ClassB implements ABC

{

public void country()

{

System.out.println("Country is Sri Lanka");

}

@Override

public void village()

{

System.out.println("Village is Pitipana");

}

}

//interface

package com.mycompany.multipleinheritance;

public interface ABC

{

public void village();

}

Question 11 part 3

//main method

package com.mycompany.queston11\_3;

public class Queston11\_3

{

public static void main(String[] args)

{

Arithmetic a1=new Arithmetic();

a1.Arithmetic(5);

System.out.println("Square is "+a1.square());

ToTestInt t1=new ToTestInt();

System.out.println("square is "+t1.getSquare());

}

}

//interface class

package com.mycompany.queston11\_3;

public interface Test

{

public int square();

}

//arithmetic class

package com.mycompany.queston11\_3;

public class Arithmetic implements Test

{

int a;

public void Arithmetic(int a)

{

this.a=a;

}

@Override

public int square()

{

return a\*a;

}

}

//ToTeastInt

package com.mycompany.queston11\_3;

public class ToTestInt

{

Arithmetic arithmetic;

ToTestInt(Arithmetic arithmetic)

{

this.arithmetic = arithmetic;

}

ToTestInt() {

throw new UnsupportedOperationException("Not supported yet."); // Generated from nbfs://nbhost/SystemFileSystem/Templates/Classes/Code/GeneratedMethodBody

}

public int getSquare() {

return arithmetic.square();

}

}

Question 12

Part 1

package com.mycompany.exception\_handling1;

import java.util.Scanner;

public class Exception\_Handling1

{

public static void main(String[] args)

{

Scanner s1=new Scanner(System.in);

int a,b,c;

System.out.println("Enter the two numbers:");

a=s1.nextInt();

b=s1.nextInt();

try

{

c=a/b;

System.out.println(c);

}

catch(Exception e)

{

System.out.println("Soory");

}

System.out.println("hi");

}

}

//example for Multiple exception handling

package com.mycompany.exception\_handling2;

import java.util.Scanner;

public class Exception\_handling2

{

public static void main(String[] args)

{

//write a program for example of multiple cath

Scanner s1=new Scanner(System.in);

int a,b,c;

System.out.println("Enter the two numbers:");

a=s1.nextInt();

b=s1.nextInt();

try

{

c=a/b;

System.out.println("Answer is "+c);

}

catch(ArithmeticException e)

{

System.out.println("can not devide into zero");

}

catch(NullpointerException e)

{

System.out.println("no");

}

System.out.println("Hello World!");

}

}

Question 13….

Part 1…….

//main class

package com.mycompany.ex\_thread;

public class Ex\_Thread

{

public static void main(String[] args)

{

/\*using runnable interface for this thread

create a object for this

\*/

A ob1=new A();

Thread th1=new Thread(ob1);

th1.start();

try

{

Thread.sleep(50);

}

catch(Exception e){}

B ob2=new B();

Thread th2=new Thread(ob2);

th2.start();

}

}

//A class

package com.mycompany.ex\_thread;

public class A implements Runnable

{

@Override

public void run()

{

for(int i=0;i<10;i++)

{

System.out.println("Thank You!");

try

{

Thread.sleep(600);

}

catch(Exception e){}

}

}

}

//B class

package com.mycompany.ex\_thread;

public class B implements Runnable

{

@Override

public void run()

{

for(int i=0;i<10;i++)

{

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

try

{

Thread.sleep(600);

}

catch(Exception e){}

}

}

}

//part 2

package com.mycompany.threads\_2;

public class Threads\_2 extends Thread

{

public Threads\_2()

{

super();//call to base class constructor

start();//thread start

}

@Override

public void run()

{

System.out.println("Sri Lanka");

try

{

Thread.sleep(500);

}

catch(Exception e){}

}

public static void main(String[] args)

{

//object for threads\_2 class

Threads\_2 tr1=new Threads\_2();

System.out.println(" My country is ");

}

}

Question 15

/\*

\* Click nbfs://nbhost/SystemFileSystem/Templates/Licenses/license-default.txt to change this license

\* Click nbfs://nbhost/SystemFileSystem/Templates/GUIForms/JFrame.java to edit this template

\*/

package com.mycompany.samplecalculater;

/\*\*

\*

\* @author Imalsha

\*/

public class Calculater extends javax.swing.JFrame {

/\*\*

\* Creates new form Calculater

\*/

double num,ans;

int calculation;

public Calculater() {

initComponents();

}

public void arithmetic\_operation()

{

switch(calculation)

{

case 1:

ans=num+Double.parseDouble(jTextField1.getText());

jTextField1.setText(Double.toString(ans));

break;

case 2:

ans=num-Double.parseDouble(jTextField1.getText());

jTextField1.setText(Double.toString(ans));

break;

case 3:

ans=num\*Double.parseDouble(jTextField1.getText());

jTextField1.setText(Double.toString(ans));

break;

case 4:

ans=num/Double.parseDouble(jTextField1.getText());

jTextField1.setText(Double.toString(ans));

break;

}

}

/\*\*

\* This method is called from within the constructor to initialize the form.

\* WARNING: Do NOT modify this code. The content of this method is always

\* regenerated by the Form Editor.

\*/

@SuppressWarnings("unchecked")

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

private void initComponents() {

jButton8 = new javax.swing.JButton();

jPanel1 = new javax.swing.JPanel();

jTextField1 = new javax.swing.JTextField();

jButton1 = new javax.swing.JButton();

jButton2 = new javax.swing.JButton();

jButton3 = new javax.swing.JButton();

jButton4 = new javax.swing.JButton();

jButton5 = new javax.swing.JButton();

jButton6 = new javax.swing.JButton();

jButton7 = new javax.swing.JButton();

jButton9 = new javax.swing.JButton();

jButton10 = new javax.swing.JButton();

jButton11 = new javax.swing.JButton();

jButton12 = new javax.swing.JButton();

jButton13 = new javax.swing.JButton();

jButton14 = new javax.swing.JButton();

jButton15 = new javax.swing.JButton();

jButton16 = new javax.swing.JButton();

jButton17 = new javax.swing.JButton();

jButton8.setText("jButton8");

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

setTitle("Simple Calc");

jTextField1.setText(" ");

jButton1.setText("9");

jButton1.addActionListener(new java.awt.event.ActionListener() {

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

jButton1ActionPerformed(evt);

}

});

jButton2.setText("8");

jButton2.addActionListener(new java.awt.event.ActionListener() {

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

jButton2ActionPerformed(evt);

}

});

jButton3.setText("7");

jButton3.addActionListener(new java.awt.event.ActionListener() {

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

jButton3ActionPerformed(evt);

}

});

jButton4.setText("+");

jButton4.addActionListener(new java.awt.event.ActionListener() {

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

jButton4ActionPerformed(evt);

}

});

jButton5.setText("6");

jButton5.addActionListener(new java.awt.event.ActionListener() {

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

jButton5ActionPerformed(evt);

}

});

jButton6.setText("5");

jButton6.addActionListener(new java.awt.event.ActionListener() {

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

jButton6ActionPerformed(evt);

}

});

jButton7.setText("4");

jButton7.addActionListener(new java.awt.event.ActionListener() {

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

jButton7ActionPerformed(evt);

}

});

jButton9.setText("-");

jButton9.addActionListener(new java.awt.event.ActionListener() {

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

jButton9ActionPerformed(evt);

}

});

jButton10.setText("3");

jButton10.addActionListener(new java.awt.event.ActionListener() {

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

jButton10ActionPerformed(evt);

}

});

jButton11.setText("2");

jButton11.addActionListener(new java.awt.event.ActionListener() {

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

jButton11ActionPerformed(evt);

}

});

jButton12.setText("1");

jButton12.addActionListener(new java.awt.event.ActionListener() {

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

jButton12ActionPerformed(evt);

}

});

jButton13.setText("\*");

jButton13.addActionListener(new java.awt.event.ActionListener() {

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

jButton13ActionPerformed(evt);

}

});

jButton14.setText("0");

jButton14.addActionListener(new java.awt.event.ActionListener() {

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

jButton14ActionPerformed(evt);

}

});

jButton15.setText("/");

jButton15.addActionListener(new java.awt.event.ActionListener() {

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

jButton15ActionPerformed(evt);

}

});

jButton16.setText("=");

jButton16.addActionListener(new java.awt.event.ActionListener() {

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

jButton16ActionPerformed(evt);

}

});

jButton17.setText("Clear");

jButton17.addActionListener(new java.awt.event.ActionListener() {

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

jButton17ActionPerformed(evt);

}

});

javax.swing.GroupLayout jPanel1Layout = new javax.swing.GroupLayout(jPanel1);

jPanel1.setLayout(jPanel1Layout);

jPanel1Layout.setHorizontalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jTextField1))

.addGroup(jPanel1Layout.createSequentialGroup()

.addGap(12, 12, 12)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.TRAILING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jButton10, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton5, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton1, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jButton14, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton2, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton6, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton11, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jButton3, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton7, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton12, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING, false)

.addComponent(jButton4, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton9, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addComponent(jButton13, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)))

.addComponent(jButton15, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)

.addComponent(jButton16, javax.swing.GroupLayout.Alignment.TRAILING, javax.swing.GroupLayout.PREFERRED\_SIZE, 42, javax.swing.GroupLayout.PREFERRED\_SIZE)))

.addGroup(jPanel1Layout.createSequentialGroup()

.addComponent(jButton17)

.addGap(48, 48, 48)))

.addGap(0, 39, Short.MAX\_VALUE)))

.addContainerGap())

);

jPanel1Layout.setVerticalGroup(

jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createSequentialGroup()

.addContainerGap()

.addComponent(jTextField1, javax.swing.GroupLayout.PREFERRED\_SIZE, 30, javax.swing.GroupLayout.PREFERRED\_SIZE)

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton1)

.addComponent(jButton2)

.addComponent(jButton3)

.addComponent(jButton4))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton5)

.addComponent(jButton6)

.addComponent(jButton7)

.addComponent(jButton9))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.BASELINE)

.addComponent(jButton11)

.addComponent(jButton12)

.addComponent(jButton13))

.addComponent(jButton10))

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

.addGroup(jPanel1Layout.createParallelGroup(javax.swing.GroupLayout.Alignment.LEADING)

.addComponent(jButton14)

.addComponent(jButton15))

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

.addComponent(jButton16)

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

.addComponent(jButton17)

.addContainerGap(66, Short.MAX\_VALUE))

);

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

getContentPane().setLayout(layout);

layout.setHorizontalGroup(

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

.addComponent(jPanel1, javax.swing.GroupLayout.PREFERRED\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.PREFERRED\_SIZE)

);

layout.setVerticalGroup(

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

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

.addComponent(jPanel1, javax.swing.GroupLayout.DEFAULT\_SIZE, javax.swing.GroupLayout.DEFAULT\_SIZE, Short.MAX\_VALUE)

.addContainerGap())

);

pack();

}// </editor-fold>

private void jButton1ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText(jTextField1.getText() + "9");

}

private void jButton2ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextField1.setText(jTextField1.getText() + "8");

}

private void jButton3ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextField1.setText(jTextField1.getText() + "7");

}

private void jButton4ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

num=Double.parseDouble(jTextField1.getText());

calculation=1;

jTextField1.setText("");

jTextField1.setText(jTextField1.getText() + "+");

}

private void jButton5ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextField1.setText(jTextField1.getText() + "6");

}

private void jButton6ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextField1.setText(jTextField1.getText() + "5");

}

private void jButton7ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextField1.setText(jTextField1.getText() + "4");

}

private void jButton9ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

num=Double.parseDouble(jTextField1.getText());

calculation =2;

jTextField1.setText("");

jTextField1.setText(jTextField1.getText() + "-");

}

private void jButton10ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextField1.setText(jTextField1.getText() + "3");

}

private void jButton11ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextField1.setText(jTextField1.getText() + "2");

}

private void jButton12ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextField1.setText(jTextField1.getText() + "1");

}

private void jButton13ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

num=Double.parseDouble(jTextField1.getText());

calculation=3;

jTextField1.setText("");

jTextField1.setText(jTextField1.getText() + "\*");

}

private void jButton14ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

jTextField1.setText(jTextField1.getText() + "0");

}

private void jButton15ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here:

num=Double.parseDouble(jTextField1.getText());

calculation=4;

jTextField1.setText("");

jTextField1.setText(jTextField1.getText() + "/");

}

private void jButton16ActionPerformed(java.awt.event.ActionEvent evt) {

// TODO add your handling code here

arithmetic\_operation();

}

private void jButton17ActionPerformed(java.awt.event.ActionEvent evt) {

jTextField1.setText( "");

}

/\*\*

\* @param args the command line arguments

\*/

public static void main(String args[]) {

/\* Set the Nimbus look and feel \*/

//<editor-fold defaultstate="collapsed" desc=" Look and feel setting code (optional) ">

/\* If Nimbus (introduced in Java SE 6) is not available, stay with the default look and feel.

\* For details see http://download.oracle.com/javase/tutorial/uiswing/lookandfeel/plaf.html

\*/

try {

for (javax.swing.UIManager.LookAndFeelInfo info : javax.swing.UIManager.getInstalledLookAndFeels()) {

if ("Nimbus".equals(info.getName())) {

javax.swing.UIManager.setLookAndFeel(info.getClassName());

break;

}

}

} catch (ClassNotFoundException ex) {

java.util.logging.Logger.getLogger(Calculater.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (InstantiationException ex) {

java.util.logging.Logger.getLogger(Calculater.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (IllegalAccessException ex) {

java.util.logging.Logger.getLogger(Calculater.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

} catch (javax.swing.UnsupportedLookAndFeelException ex) {

java.util.logging.Logger.getLogger(Calculater.class.getName()).log(java.util.logging.Level.SEVERE, null, ex);

}

//</editor-fold>

/\* Create and display the form \*/

java.awt.EventQueue.invokeLater(new Runnable() {

public void run() {

new Calculater().setVisible(true);

}

});

}

// Variables declaration - do not modify

private javax.swing.JButton jButton1;

private javax.swing.JButton jButton10;

private javax.swing.JButton jButton11;

private javax.swing.JButton jButton12;

private javax.swing.JButton jButton13;

private javax.swing.JButton jButton14;

private javax.swing.JButton jButton15;

private javax.swing.JButton jButton16;

private javax.swing.JButton jButton17;

private javax.swing.JButton jButton2;

private javax.swing.JButton jButton3;

private javax.swing.JButton jButton4;

private javax.swing.JButton jButton5;

private javax.swing.JButton jButton6;

private javax.swing.JButton jButton7;

private javax.swing.JButton jButton8;

private javax.swing.JButton jButton9;

private javax.swing.JPanel jPanel1;

private javax.swing.JTextField jTextField1;

// End of variables declaration

}

//main class

public class SampleCalculater

{

public static void main(String[] args)

{

Calculater c1=new Calculater();

c1.show(true);

}

}