```
import java.util.Scanner;
class quadraticequation
{
  public static void main(String args[])
  {
    Scanner sc=new Scanner(System.in);
    double a,b,c,r1,r2,d;
    System.out.println("Enter the value of a,b,c");
    a= sc.nextDouble();
    b = sc.nextDouble();
    c = sc.nextDouble();
    d = (b*b)-(4*a*c);
    if (d<0)
    System.out.println("No real roots for the
                                given quadratic equation");
    else if (d>=0)
    {
      r1=(-b+(Math.sqrt(d)))/(2*a);
      r2=(-b-(Math.sqrt(d)))/(2*a);
      if (d==0)
      {
        System.out.println("Roots are real and
                                equal");
        System.out.printf("The roots are:%.2f
                                and %.2f", r1,r2);
      }
      else
      {
        System.out.println("Roots are real and
                                unequal");
```

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Date / /

```
System.out.printf("The roots are: %.2f
                  and %.2f", r1, r2);
    }
  }
}
}
```

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Command Prompt

```
icrosoft Windows [Version 10.0.19041.508]
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:\Users\DELL>cd Desktop

C:\Users\DELL\Desktop>javac quadraticequation.java

C:\Users\DELL\Desktop>java quadraticequation.java
Enter the values of a,b,c
3 12 9
Roots are real and unequal
The roots are: -1.00 and -3.00
C:\Users\DELL\Desktop>javac quadraticequation.java

C:\Users\DELL\Desktop>java quadraticequation.java
Enter the values of a,b,c
1 2 3
No real roots for the given quadratic equation

C:\Users\DELL\Desktop>
```

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Lab 2

```
import java.util.Scanner;
class Student
{
  String usn, name;
  int credits [];
  float marks[];
  int n;
  float tot=0;
```

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```
Student ()
{
Scanner sc = new Scanner (System.in);
System.out.println(" Enter the number of subjects");
n = sc.nextInt()
credits = new int [n]
marks = new float [n];
usn = " ";
name = " ";
}
void Accept ()
{
Scanner sc = new Scanner (System.in);
System.out.println(" Enter your USN and Name");
usn = sc.nextLine();
name = sc.nextLine();
System.out.println(" Enter credits and marks
for each subject");
for(int i = 0; i<n, i++)
{
credits [i] = sc.nextInt();
marks [i] = sc.nextFloat();
}
}
void Calculate()
{
int s=0
int m=0
float a=0
for(int i = 0; i<n; i++)
{
if(marks [i] >= 90)
m=10;
```

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```
else if (marks[i] < 90 && marks[i] >= 80)
m = 9;
else if (marks[i] < 80 && marks[i] >= 70);
m = 8;
else if (marks[i] < 70 && marks[i] >= 60);
m = 7;
else if (marks[i] < 60 && marks[i] >= 50);
m = 6;
else if (marks[i] < 50 && marks[i] >= 40);
m = 4;
else if (marks[i] < 40)
m = 0;
s = s + credits[i];
a = a + (credits[i] * m);
}
tot = a/s;
}
void Display()
{
System.out.println("The details of the
                    Student");
System.out.println("USN : " + usn +"
                    Name : " + name");
System.out.println("Credits and Marks");
for (int i = 0; i < n; i++)
{
System.out.println(credits[i] + " " +
                    marks[i]);
}
System.out.println("SGPA %.2f", tot);
}
}
```

```
class StudentMain
{
  public static void main(String arg[])
  {
    Student s1 = new Student();
    s1. Accept();
    s1. Calculate();
    s1. Display();
  }
}
```

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```
Microsoft Windows [Version 10.0.19041.508]
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C:\Users\DELL>cd Desktop

C:\Users\DELL\Desktop>javac Student.java

C:\Users\DELL\Desktop>java StudentMain
Enter the number of subjects
4
Enter your USN and Name
1bm19cs054
divya
Enter credits and marks for each subject
3 89
5 78
2 66
4 77
The details of the student
USN:1bm19cs054   Name:divya
Credits and Marks
3  89.0
5  78.0
2  66.0
4  77.0
SGPA  8.07
C:\Users\DELL\Desktop>
```

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Lab 3 Creat a class Book which contains four members: name, author, price, num_pages. Include a constructor to set the value for the members Include that methods to set and get the details of the object. Include a toString() method that could display the complete details of the book

```
import java.util.Scanner;
class Book
{
  String name,author;
  int pages;
  double price;
  Book()
  {
    name=" ";
    author=" ";
    pages = 0;
    price = 0.0d;
  }
  void Accept()
  {
    Scanner sc=new Scanner(System.in)
    System.out.println("Enter the name of the Book:");
```

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```
name = sc.nextline();
System.out.println("Enter the author of the book");
author = sc.nextLine();
System.out.println("Enter the price of the book:");
price = sc.nextDouble();
System.out.println("Enter the number of pages of the
                    book : ");
pages = sc.nextInt();
}

public String toString()
{
return("Name of the book :: "+name+"    Author::
        "+author+"    Price :: "+price+"
        Pages : " +pages);
}
}

class BookMain
{
public Static void main (String arg[])
{
int n
Scanner sc = new Scanner (System.in);
System.out.println("Enter the number of objects
n = sc.nextInt()
Book b[] = new Book[n];
for(int i = 0; i<n; i++)
{
b[i] = new Book();
b[i].Accept();
System.out.println(b[i]);
}
}
}
```

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Command Prompt

```
Microsoft Windows [Version 10.0.19041.508]
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C:\Users\DELL>cd Desktop

C:\Users\DELL\Desktop>javac BookMain.java

C:\Users\DELL\Desktop>java BookMain
Enter the number of objects:
2
Enter the name of the book:
CCP
Enter the author of the book:
ABC
Enter the price of the book:
25
Enter the total number of pages of the book:
100
Name of the book: CCP    Author: ABC    Price: 25.0    Pages: 100
Enter the name of the book:
COA
Enter the author of the book:
XYZ
Enter the price of the book:
50
Enter the total number of pages of the book:
200
Name of the book: COA    Author: XYZ    Price: 50.0    Pages: 200

C:\Users\DELL\Desktop>
```

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Lab 4. Develope a Java Program to Create an Abstract class named Shape that contains two integer and an empty method name printArea(). Provide three classes named Rectangle, Triangle and Circle such that each one of the classes extends the class shape. Each one of the classes contain only the method printArea() that prints the area of the given shape.

```
import java.util.Scanner;
abstract class Shape
{
  int a1, a2;
  Scanner sc = new Scanner(System.in);
  abstract void printArea();
}
class Rectangle extends Shape
{
  void printArea()
  {
    System.out.println("Enter length and breath
                        of Rectangle:");
    a1 = sc.nextInt();
    a2 = sc.nextInt();
    System.out.println("The area of Rectangle is:"
                        + a1*a2);
  }
}

class Triangle extends Shape
{
  void printArea()
  {
    System.out.println("Enter base and
                        height of triangle:");
```

```
a1 = sc.nextInt();
a2 = sc.nextInt();
System.out.println("The area of Triangle is:"
                    +(a1+a2)/2f);

}
}

class Circle extends Shape
{
  void printArea()
  {
    System.out.println("Enter radius of
                        circle:");

    a1 = sc.nextInt();
    System.out.println("The area of
                        circle is:"+a1*a1*3.14f);

  }
}

class PlusShapeShape
{
  public static void main(String args[])
  {
    public Rectangle r = new Rectangle();
      r.printArea();
    Triangle t = new Triangle();
      t.printArea();
      Circle c = new Circle();
      c.printArea();
  }
}
```

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Command Prompt

```
Microsoft Windows [Version 10.0.18362.1139]
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C:\Users\Lenovo>cd Desktop

C:\Users\Lenovo\Desktop>javac AbstractShape.java

C:\Users\Lenovo\Desktop>java AbstractShape
Enter length and breadth of Rectangle:
4 5
The area of Rectangle is: 20
Enter base and height of Triangle:
7 9
The area of Triangle is: 31.5
Enter radius of Circle:
4
The area of Circle is: 50.24

C:\Users\Lenovo\Desktop>
```

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```
import java.util.Scanner;
abstract class Account
{
  String name, actype;
  long accNo;
  double bal;
  final double minBal = 1000.0;
  Account (String name, long accNo. double bal,
              String actype)
  {
    this.accNo = accNo;
    this.name = name;
    this.bal = bal;
    this.actype = actype
  }
  abstract void addBal(double amt);
  abstract void displayBal()
```

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```
abstract void withdrawBal(double amt);
}
class Curr_acct extends Account
{
  Curr_acct(String name, long acc No, double bal)
  {
    super(name, acc No, bal, "Current");
    System.out.println("Name: "+name+"\n
                    Acc no:"+acc No+"\n Balance:
                    "+bal+"\n Account Type:
                    "+acctype);
  }
  void addBal(double amt)
  {
    this.bal += amt;
  }
  void displayBal()
  {
    System.out.println("The balance is:
                    "+this.bal);
  }
  void checkBal()
  {
    if(this.bal < minBal)
    {
      System.out.println("Insufficient
                balance, service charge imposed");
      this.bal -= this.bal + 0.02;
    }
  }
  void withdrawBal(double amt)
  {
```

```
this.bal -= amt;
checkBal();
}
}
class Save_acct extends Account
{
Save_acct(String name, long acc No,
          double bal)
{
super(name, accNo, Bal, "Savings");
System.out.println("Name:"+name+"\n
                Accno:"+accNo+"\n
                Balance:"+bal+"\n Account
                Type:"+ actype);
}
void addBal(double amt)
{
this.bal += amt;
addIntr();
}
void addIntr()
{
int tm=2, R=7;
this.bal += this.bal*(Math.pow((1+R/
                100)), tm));
}
void displayBal()
{
System.out.println("The balance is :"
                + this.bal);
}
void withdrawBal(double amt)
{
```

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```
this.bal -=amt;
}
}

class AccountMain
{
public static void main(String[] args){
Scanner sc=new Scanner(System.in);
double amt;
System.out.println("Enter details:");
System.out.println("Name:");
String x= sc.next();
System.out.print("Account Number:");
long y= sc.nextlong();
while(true)
{
System.out.println("Type of account:
\n 1. Current account \n 2. Savings
account \n 3. Exit");
int o=sc.nextInt();
if (o==1){
System.out.println("The current
Account provides cheque book
facility but no interest:");
Curr_acct cr=new Curr_acct(x,y,
20000);

while(true)
{
System.out.println("1. Deposite \n
2. Display Balance \n 3. Withdraw
Amount \n 4. Exit");
int ch = sc.nextInt()
switch(ch)
{
```

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```
case 1:
System.out.println("Enter the amt to be
                        added:");
amt = sc.nextDouble();
cr.addBal(amt);
break;
case 2:
cr.displayBal();
break;
case 3:
System.out.println("Enter the amt to be
                        withdrawn:");
amt = sc.nextDouble();
cr.withdrawBal(amt);
break;
case 4:
System.exit(0)
default: System.out.println("Invalid
                        choice");
}
}
}

else if (o==2){
System.out.println("The savings Account
  provides compound interest and
  withdrawal facilities but no cheque
  book facility.");
Sav_acct sw = new Sav_acct (n, cf,
                        5000);

while (true)
{
  System.out.println("1: Deposite \n
  2: Display Balance \n 3: Withdraw
  Amount \n 4: Exit");
```

```
int ch=sc.nextInt()
switch (ch)
{
 case 1:
 System.out.println("Enter the amount to be
                                 added:");
 amt = sc.nextDouble();
 sv.addBal(amt);
 break;
 case 2:
 sv.displayBal();
 break;
 case 3:
 System.out.println("Enter the amount
 amt=s                          to be withdrawn:");
 amt = sc.nextDouble();
 sv.withdrawBal(amt);
 break;
 case 4: System.exit(0);
 default: System.out.println("Invalid
                                 choice");
 }

}
else if (o==0)
System.exit(0);
else
System.out.println("Invalid choice");
}
}
}
```

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Command Prompt

```
C:\Users\Lenovo\Desktop>javac AccountMain.java

C:\Users\Lenovo\Desktop>java AccountMain
Enter details:
Name:
janu
Account Number:
89755545000
Type of account:
 1.Current account
 2.Savings account
 3.Exit
1
The Current Account provides cheque book facility but no interest.
Name: janu
 Accno: 89755545000
 Balance: 20000.0
 Account Type: Current
1.Deposit
 2.Display Balance
 3.Withdraw Amount
 4.Exit
2
The balance is: 20000.0
1.Deposit
 2.Display Balance
 3.Withdraw Amount
 4.Exit
3
Enter the amount to be withdrawn:
6000
1.Deposit
 2.Display Balance
 3.Withdraw Amount
 4.Exit
2
The balance is: 14000.0
1.Deposit
 2.Display Balance
 3.Withdraw Amount
 4.Exit
4

C:\Users\Lenovo\Desktop>
```

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Lab-6

Create a package CIE which has two classes - Student and Internals. The class internals has an array that stores the internal marks scored in five courses of the current semester of the student. Create another package SEE which has the class Externals which is a derived class of Student. This class has an array that stores the SEE marks scored in five courses of the current semester of the Student. Import java the two packages in a file that declares the final marks of n students in all five courses.

```
package CIE;
import java.util.*;
public class internals extends student
{
    public int a[];
    public void input()
    {
        Scanner sc = new Scanner(System.in);
        System.out.println("enter cie marks
                                (5 subjects) out of
                                50");
        a = new int[5];
        for(int i=0; i<5; i++)
            a[i] = sc.nextInt();
    }
}
```

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```
package SEE;
import CIE.*;
import java.util.*;
public class internal extends
CIE.student
{
  public int a[];
  public void input()
  {
    Scanner sc = new Scanner(System.in);
  System.out.println("enter see marks
                    (5 subjects) out of 100");
    a = new int[5];
  for (int i=0; i<5; i++)
    a[i] = sc.nextInt();
  }
}

import CIE.*;
import SEE.*;
import java.util.*;
class total
{
  public static void main(String[] args)
  {
  Scanner sc = new Scanner(System.in);
  System.out.println("enter number of
                    students");
    int n = sc.nextInt();
    CIE.internals in[] = new
    CIE.internals[n];
     SEE.externals ex[] = new
     SEE.external[n];
```

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```
int total
for(int j =0; j<n; j++)
{
System.out.println("enter"+(j+1)+"
                    student details:");
in[j]= new CIE.internals();
en[j]= new SEE.internals();
in[j]= inputd()
in[j].input();
en[j].input();
}
System.out.println(" ");
for(int j=0; j<n; j++)
{
  in[j].display();
  System.out.println("\n Student"+(j+1)
                  +"total marks:");
  for(int k=0; k<5; k++)
  System.out.println(in[j].a[k]+
                  (en[j].a[k]/2));
}
}
}

package CIE;
import java.util.*;
public class student
{
public String usn, name;
public int sem;
public void inputd()
{
Scanner sc = new Scanner(System.in);
```

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```
System.out.println("Enter usn, name, sem");
    usn = sc.next()
    name = sc.next();
    sem = sc.nextInt();
}
public void display()
{
    System.out.println("usn" + usn + "name = " + name + "sem = " + sem);
}
}
```

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Command Prompt

```
Microsoft Windows [Version 10.0.18362.1139]
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C:\Users\Lenovo>cd Desktop

C:\Users\Lenovo\Desktop>javac total.java

C:\Users\Lenovo\Desktop>java total
enter number of students
2
enter1student details:
enter usn,name,sem
1bm divya 3
enter cie marks(5 subjects) out of 50
45
46
47
48
49
enter see marks(5 subjects) out of 100
85
86
87
88
89
enter2student details:
enter usn,name,sem
2bm janu 3
enter cie marks(5 subjects) out of 50
50
49
48
47
46
```

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Command Prompt

```
enter see marks(5 subjects) out of 100
90
91
92
93
94

usn=1bm  name=divya  sem=3

student 1 total marks:
87
89
90
92
93
usn=2bm  name=janu  sem=3

student 2 total marks:
95
94
94
93
93

C:\Users\Lenovo\Desktop>
```

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}

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Lab 7)

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Divyashree.k

WAP to demonstrate generics with multiple object parameters.

```
import java.util.Scanner;
class Generics <A,B,C>{
 A ob1;
 B ob2;
 C ob3;
 Generics (A o1,B o2,C o3){
  ob1 = o1;
  ob2 = o2;
  ob3 = o3;
 }
 void print(){
 System.out.println("The type of A is:"+ob1.getClass().getName());
```

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```
System.out.println("This type of B is :" + ob2.getClass().getName());
System.out.println("This type of C is :" + ob3.getClass().getName());
}
A get1(){
return ob1;
}
B get2(){
return ob2;
}
C get3(){
return ob3;
}
}
class GenericsMain {
public static void main(String args[])
{ Scanner ss = new Scanner(System.in);
System.out.println("Enter a character :");
char c = ss.next().charAt(0);
Generics<character,Boolean,String>(c, true, "yes");
ob.print();
char x = ob.get1();
System.out.println("value :" + x);
boolean y = ob.get2();
System.out.println("value :" + y);
String s = ob.get3();
System.out.println("value :" + s);
}
}
```

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Command Prompt

```
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C:\Users\Lenovo>cd Desktop

C:\Users\Lenovo\Desktop>javac GenericsMain.java

C:\Users\Lenovo\Desktop>java GenericsMain
Enter a character:
h
The type of A is:java.lang.Character
The type of B is:java.lang.Boolean
The type of C is:java.lang.String
value: h
value: true
value: yes

C:\Users\Lenovo\Desktop>_
```

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Lab 8 WAP that demonstrates handling of exceptions in inheritance tree. Create a base class called "FATHER" and derived class called "Son" which extends the base class. In Father class, implement a constructor which takes the age and throws the exception WrongAge() when the input age = father's age.

```
import java.util.Scanner.
class WrongAge extends Exception {
  int age.
  WrongAge (int x) {
    age = x;
  }
  public String toString () {
    return "Age entered is incorrect";
  }
}

class father {
  int a
  father (int x) {
    a = x
  }
}
class father {, class son extends father {
int age;
son (int fage, int sage) {
super (fage);
  age = sage;
}
void check () throws WrongAge {
if (age >= a || age < 0 || a < 0) {
  throw new WrongAge(age); }
```

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```
else{
System.out.println("Correct ages entered");
System.out.println("Father's age"+a+"\n+
                    Son's age:"+age);
}
}
}

class EnceptionsMain{
public static void main(String args[]){
Scanner sc= new scanner(System.in);
System.out.println("Enter Father's age:");
int f= sc.nextInt();
System.out.println("Enter Son's age:");
int s= sc.nextInt();
son ss= new son(f,s);
try {
        ss.check(); }
catch (WrongAge e)
  {
    System.out.println(" "+e);
  }
}
}
```

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Command Prompt

```
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C:\Users\Lenovo>cd Desktop

C:\Users\Lenovo\Desktop>javac ExceptionsMain.java

C:\Users\Lenovo\Desktop>java ExceptionsMain
Enter father's age:
50
Enter son's age:
18
Correct ages entered
Father's age:50
Son's age:18

C:\Users\Lenovo\Desktop>javac ExceptionsMain.java

C:\Users\Lenovo\Desktop>java ExceptionsMain
Enter father's age:
18
Enter son's age:
50
Age entered is incorrect

C:\Users\Lenovo\Desktop>
```

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1BMA CS 054

Lab-9 WAP which creates two threads, one thread displaying "BMS College of Engineering" once every two seconds and another displaying "CSE" once every two seconds.

```
class NewThread implements
Runnable
{
 String name;
 int x;
 Thread t;
 New Thread (String thread name, int value)
 {
  name = thread name;
  x = value
  t = new Thread (this, name);
 System.out.println ("New thread : "+t);
 t.start ();
 }
 public void run()
 {
  try ()
  for (int i=5; i>0; i--)
  {
   if (x==1)
   {
    System.out.println("BMS College
                of Engineering");
    Thread.sleep (10000);
   }
   else
   {
```

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1BM19CS054

```
System.out.println("CSE");
Thread.sleep(2000)
}
}
} catch(InterruptedException e)
{
System.out.println(name + "Interrupted");
}
System.out.println(name+"exiting.");
}
}
class MainNewThread
{
public static void main(String args[])
{
new NewThread("BMSCE", 1);
new NewThread("CSE", 2);
}
}
```

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Command Prompt

```
Microsoft Windows [Version 10.0.18363.1198]
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C:\Users\Lenovo>cd Desktop

C:\Users\Lenovo\Desktop>javac MainNewThread.java

C:\Users\Lenovo\Desktop>java MainNewThread
New thread: Thread[BMSCE,5,main]
New thread: Thread[CSE,5,main]
BMS Collage of Engineering
CSE
CSE
CSE
CSE
CSE
BMS Collage of Engineering
CSE exiting.
BMS Collage of Engineering
BMS Collage of Engineering
BMS Collage of Engineering
BMSCE exiting.

C:\Users\Lenovo\Desktop>_
```

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Dinyashu
1BM19CS054

Lab-10 WAP that creates a users interface to perform integer Division. The user enters two nos in the text field when the text fields, Num1 and Num2. The division of Num1 and Num2 is displayed in the Result field when the Divide button is clicked. If NUM1 or Num2 are not an integer the program would throw a NumberFormatException. If Num2 were zero, the program would throw an ArithmeticException Display the exception in a message dialog box.

```
import java.awt.*;
import java.awt.event.*;
public class Division extends Frame
implements ActionListener{
public class DialogD extends extends Frame
{
  String msg;
  DDialog myDialog;
  public DialogD(){
  myDialog = new DDialog(this,"New
    Dialog Box",msg);
  }
}

  String msg;
  TextField num1,num2,res;
  Label l1,l2,l3;
  Button div;
  public Division(){
    setLayout(new FlowLayout());
    l1 = new
      Label("Dividend",Label.RIGHT);
```

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```
L2 = new Label("Divisor", Label.RIGHT);
L3 = new Label("~~RESULT~~ Result", Label.
                                RIGHT);
num1 = new TextField(10);
num2 = new TextField(10);
res = new TextField(10);
div = new Button("Divide");
add(L1);
add(num1);
add(L2);
add(~~B~~ num2);
add(L3);
add(res)
add(div);
div.addActionListener(this);
addWindowListener(new MyWindowsAdapter());
}

public void
actionPerformed(ActionEvent ae) {
int num1=0; num2=0;
try {
num1=Integer.parseInt(this.num1.
                        getText());
num2=Integer.parseInt(this.num2.get
                        Text());
double num3=(double)num1/num2;
res.setText(String.valueOf(num3));
msg="Division Successful";
}
catch (NumberFormatException
{
```

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```
System.out.println(e);
res.setText(" ");
msg="NumberFormatException";
DDialog dd = new DDialog(this,
                    "Dialog", msg);
dd.setVisible(true);
return;
}
try{
if(num2 == 0)
throw new ArithmeticException();
msg = "Can't be divided by Zero";
}
catch(ArithmeticException e)
{
System.out.println("Can't be divided
                    by Zero"+e);
res.setText(" ");
msg = "Can't be divided by Zero";
DDialog dd = new DDialog
                (this "Dialog", msg);
dd.setVisible(true);
return;
}
}
public void paint(Graphics g){
g.drawString(msg 80,100);
}
public static void main(String[] args)
{
Division app=new Division();
app.setSize(new Dimension
                (480,280));
```

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```
appwin.setTitle("Division");
appwin.setVisible(true);
}
}

class MyWindowAdapter extends
WindowAdapter {
 public void
 windowClosing(WindowEvent we)
 {
  System.exit(0);
 }
}

class DDialog extends Dialog {
 DDialog(Frame parent, String title
   String msg)
 {
  super(parent, title, false);
  setLayout(new FlowLayout());
  setSize(300,300);
  add(new Label(msg));
  Button b;
  add(b = new Button("OK"));
  b.addActionListener((ae)->dispose());
  addWindowListener(new WindowAdapter
                 ()){
   public void
   windowClosing(WindowEvent we)
   {
    dispose();
   }
  });
 }
}
```

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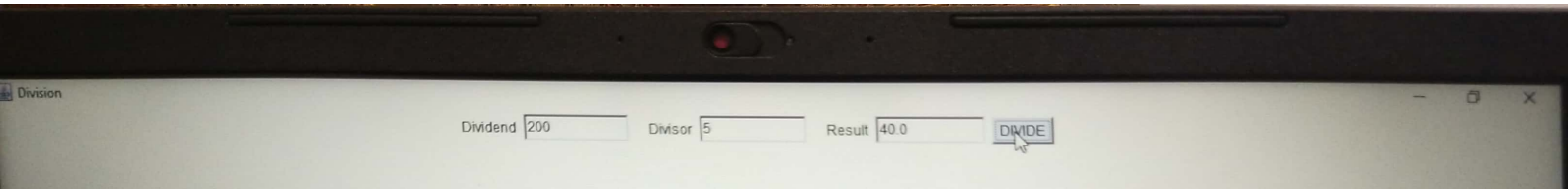

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