OOJ

Program 1 : Write a program to print an Integer

```java
import. java.util. Scanner;
public class HelloWorld {
    public static void main (String [] args){
        Scanner reader = new Scanner (System.in);
        System.out. print ("Enter a number: ");
        int number = reader.next Int();
        System.out. println(" You entered: " + number);}}
```
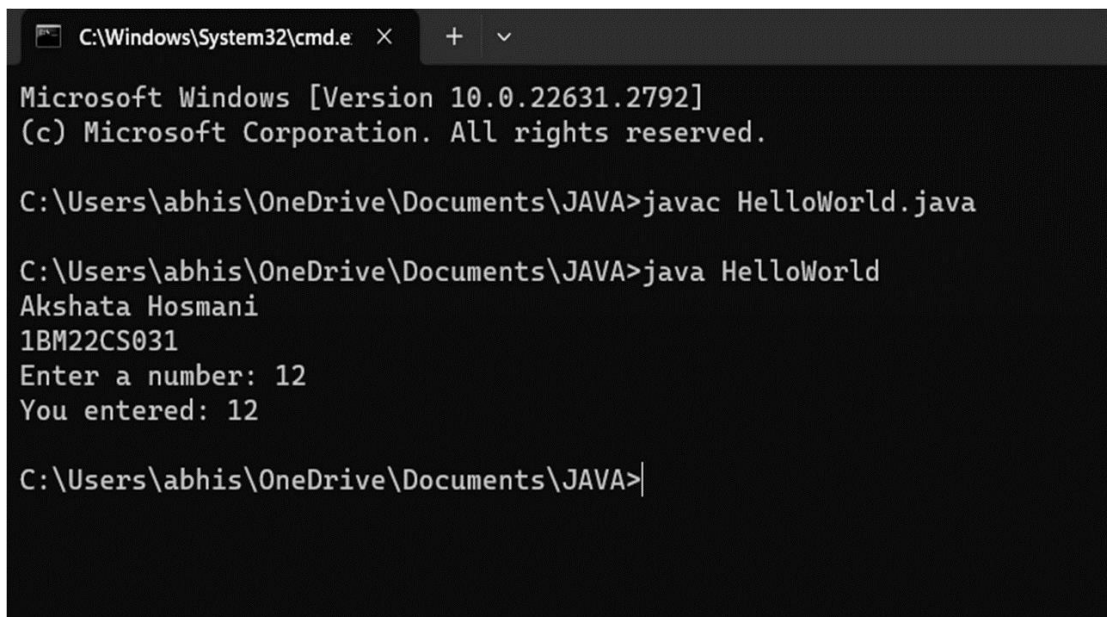
```
C:\Windows\System32\cmd.e   ×   +   ∨

Microsoft Windows [Version 10.0.22631.2792]
(c) Microsoft Corporation. All rights reserved.

C:\Users\abhis\OneDrive\Documents\JAVA>javac HelloWorld.java

C:\Users\abhis\OneDrive\Documents\JAVA>java HelloWorld
Akshata Hosmani
1BM22CS031
Enter a number: 12
You entered: 12

C:\Users\abhis\OneDrive\Documents\JAVA>
```

Program 2 : Java Program to check whether a Number is
                      Even or Odd.

```java
import java.util.Scanner;
public class JavaExample {
    public static void main (String[] args) {
        int num;
        System.out.print ("Enter an Integer number");
        Scanner input = new Scanner (System.in);
        num = input.nextInt();
        if (num % 2 == 0)
            System.out.println (num + " is even no.");
        else
            System.out.println (num + " is odd no.");
    }
}
```



```
C:\Windows\System32\cmd.e  ×   +  ⌄

Microsoft Windows [Version 10.0.22631.2792]
(c) Microsoft Corporation. All rights reserved.

C:\Users\abhis\OneDrive\Documents\JAVA>

C:\Users\abhis\OneDrive\Documents\JAVA>javac JavaExample.java

C:\Users\abhis\OneDrive\Documents\JAVA>java JavaExample
Akshata Hosmani
1BM22CS031
Enter an Interger number:
23
23 is an odd number.

C:\Users\abhis\OneDrive\Documents\JAVA>
```

3 is odd no.

Program 3: Java Program to Print Right Triangle star pattern.

```java
Public class JavaExample {
    public static void main ( String [] args){
        int row, column, noof Rows = 8;
        for (row =0; row< noof Rows ; row ++)
        { for ( column = 0; column <= Row ; column ++)
        { System.out.print(" * "); }}}}
```

Program 4 : Java program to find Quotient and Remainder

```java
public class JavaExample {
    public static void main (String[] args) {
        int num1 = 15, num2 = 2;
        int quotient = num1 / num2;
        int remainder = num1 % num2;
        System.out.println("Quotient is: " + quotient);
        System.out.println("Remainder is: " + remainder);
    }
}
```

Program 5: Java program to multiply two numbers

```java
public class demo {
    public static void main (string [] args) {
        Scanner Scan = new Scanner (System.in);
        System.out.println ("Enter first number");
        int num1 = Scan.nextInt();
        System.out.println (" Enter second number");
        int num2 = Scan.nextInt();
        Scan.close();
        int product = num1 * num2;
        System.out.println (" Output : " + product); } }
```

Algorithm:

Program 6: Swap 2 numbers using temporary variable

```java
public class swapnumbers {
    public static void main ( String [] args ) {
        float first = 1.20f , second = 2.45f ;
        System.out.println( " -- Before swap -- ");
        System.out.println("First number" + first);
        System.out.println("Second number" + second);
        float temporary = first;
        set first = second;
        second = temporary;
        System.out.println(" -- After swap -- ");
        System.out.println(" First number " + first);
        System.out.println("second number" + second); }}
```

Algorithm:

Q. Develop a Java program that prints all real solutions to the quadratic equation. $ax^2 + bx + c$. Read in a, b, c and use the quadratic formula. If the discriminate $b^2 - 4ac$ is negative, display a message stating that there are no real solutions

$\Rightarrow$ public class quadratic Equation {

public static void main (String[] args) {

    float a, b, c, d;

    double r_1, r_2;

    Scanner scan = new Scanner (System.in);

    System.out.println ("Enter the coefficients");

    a = scan.nextFloat();

    b = scan.nextFloat();

    c = scan.nextFloat();

if (a == 0)

    System.out.println ("invalid input");

    else { d = b*b - 4 * a * c;

    if (d > 0)

    { System.out.println ("Roots are Real and distinct");

    $r_1 = (-b + $ Math.sqrt (d)) / (2*a);

    $r_2 = (-b - $ Math.sqrt (d)) / (2*a);

    System.out.println ("root 1" + r_1 + "root 2 = " + r_2); }

    else if (d == 0)

    { System.out.println ("Roots are real and equal");

    $r_1 = r_2 = -b / (2*a);$

```java
System.out.println(" root 1 = "+r+" root 2 = "+r1);}
else {
    System.out.println(" Roots are imaginary");
    r1 = -b/(2*a);
    r2 = Math.sqrt(-d)/(2*a);
    System.out.println("root 1 = " + r1 + "+"
                        + r2);
    System.out.println("root2 = " + r2 + "+" + r2);
}}}.
```

Algorithm:

step 1 : start

step 2 : Initialize float a, b, c, d and
double r_1, r_2;

print entu the coefficients
a coefficients

```
C:\Users\aksha\Downloads>java Qe
Akshata Hosmani
1BM22CS031
Enter the coefficients of the quadratic equation (a, b, c):
10
6
4
The roots of the equation are complex and distinct:
Root 1: -0.3 + 0.5567764362830021i
Root 2: -0.3 - 0.5567764362830021i

C:\Users\aksha\Downloads>javac Qe.java

C:\Users\aksha\Downloads>java Qe
Akshata Hosmani
1BM22CS031
Enter the coefficients of the quadratic equation (a, b, c):
2
4
5
The roots of the equation are complex and distinct:
Root 1: -1.0 + 1.2247448871391589i
Root 2: -1.0 - 1.2247448871391589i
```

Date = 29-12-23

8. Develop a Java program to to create a class
student with member usn, name and array
credits and an array marks. Include method
to accept and display, and a method
to calculate SGPA of a student.

→

```java
import. java. util. Scanner;
public class student {
    String usn;
    int t;
    String name;
    private static int credit[] = { 4, 4, 4, 3, 3, 2, 1, 1};
    int marks[] = new int[8];
    Scanner s = new Scanner (system. in);
    public void get-details()
    {  System.out.println(" Enter your usn");
       usn = s.next(); }
    public void set-marks()
    {  System.out.println(" Enter your name");
       name = s.next(); }
    public void set-marks() { int i;
    System. out. println(" Enter your marks");
    in order considering 91-100 as 10, 81 to 90 -9).
    for (i=0; i<8; i++)
    {  marks[i] = s.next Int();} }
    for (i=0; i<8; i++)
        public
```

```java
public double spg sgpa(){
    double sgpa = 0, temp = 0;
    for (int i=0; i<8; i++)
    {  temp + = credit[i] * marks[i];}
    sgpa = temp/22;
    return sgpa; }

public void display(){
    System.out.println(" Name:" +name);
    System.out.println ("usn:" + usn);
    System.out.println[" SGPA" + sgpa);}

public static void main (string[] args)
{       Student s1 = new student();
        s1.get_details();
        s1. get marks();
        s1.get s1. display(); }}
```

```
C:\Users\aksha\Downloads>javac marks.java

C:\Users\aksha\Downloads>java marks
Akshata Hosmani
1BM22CS031
Enter your USN
cs031
Enter your Name
Akshata
Enter your Marks
76
67
89
98
56
65
90
89
Name:Akshata
USN:cs031
SGPA:2.696825396825397
```

Lab-9

8. create a class Book which contains 4 members, name, author, price, num_pages. Include a constructor to set the values of the members. Include methods to get set and get the details of the objects. Include a testing method that could display the complete details of the book. Develop a java program to create n book objects.

=>
```java
import java.util.Scanner;
class book {
    String name;
    String author;
    float price;
    int num_pages;
void set_details ()
{   scanner s = new Scanner (system.in);
    System.out.println("Entu book name,
        Authorname, price, num_pages+");
    name = s.next();
    author = s.author();
    price = s.nextFloat();
    num_pages = s.nextInt(); }
    void get_details ()
    {    string details = toString();
         system.out.println(details); }
    public String toString()
    { return "the book" + name + "was
    written by" + author + "it consists of"
    + num_pages" + num_pages" + "pages and
    costs around" + price }
```

```java
public static void main (String[] args)
{   Scanner sc = new Scanner(System.in);
    System.out.println(" enter no. of books
    you want to generate");
    int n = sc.nextInt();
    book b[] = new book[n];
    for(int i=0; i<n; i++)
    {   b[i] = new book()
        b[i] = e
            b[i].set_details();  }
    System.out.println("book details");
    System.out.println();
    for(int i=0; i<n; i++)
    {   b[i].get_details(); } })
```

Algorithm:

```
C:\Users\aksha\Downloads>javac Main.java

C:\Users\aksha\Downloads>java Main
Akshata Hosmani
1BM22CS031
Enter the number of books you want to generate 2

Enter details for Book 1:
Name: XYZ
Author: Shakesphere
Price: 100
Number of Pages: 50

Enter details for Book 2:
Name: ABC
Author: Henry
Price: 200
Number of Pages: 60

Details of all books:
Book Details:
Name: XYZ
Author: Shakesphere
Price: $100.0
Number of Pages: 50

Book Details:
Name: ABC
Author: Henry
Price: $200.0
Number of Pages: 60
```

Q/ Develop a Java program to create a abstract class named shape that contains two integer and an empty method named printArea(). Provide 2 classes named Rectangle, Triangle and circle such that each one of the classes extends the class shape. Each one of the classes contains only the method print Area() that prints the area of the given shape.

=)
```
import java.util. Scanner;
    abstract class shape {
        int x, y;
        abstract void area(); print Area();
    public static void main (string[] arges)
    {       shape obj1 = new circle();
          obj1. print Area();
          shape obj2 = new triangle();
          obj2. print Area();
          shape obj3 = new Rectangle();
          obj3. print Area(); } }

class Rectangle extends shape
{   system.out. print ln(" Enter length and
    breadth of the rectangle");
    Scanner. s = new Scanner(System.in)
        x = s.next Int();
        y = s. next int(); }
    public printArea()
    {   System. out. println(" The area of the
        rectangle is x * y"); } }
```

```
class circle extends shape
{    System.out.println(" Enter radius of the
        circle");
    Scanner sc = new Scanner(System.in)
        x = sc.nextInt();
        y = x;
    System
        public void printArea(){
    System.out.println(" the area of the circle
        is " 3.14 * x * y''); } }

class Triangle   extends shape
{ system.out.println(" enter the base and
    height of the triangle");
        Scanne scan = new Scanner(system.in);
        x = scan.nextInt();
        y = scan.nextInt();
    public void printArea(){
    System.out.println(" the area of the
    triangle is " 0.5 * x * y); }).
```

```
C:\Users\aksha\Downloads>javac Shape.java

C:\Users\aksha\Downloads>java Shape
Akshata Hosmani
1BM22CS031
Enter radius of the circle
4
The area of the circle is 50.24
Enter base and height of the triangle
3
4
The area of the triangle is 6.0
Enter length and breadth of the rectangle
4
5
The area of the rectangle is 20
```

Q) Develop a Java program to create a class Bank that maintains two kinds of account for its customers, One called savings account and the other current account. The savings account provides compound interest and withdrawal facilities but no cheque book facility, the current account provides cheque book facility but no interest. current account holders should also maintain a minimum balance and if the balance falls below this level, a Service charge is imposed. Create a class Account that stores customer name, account number and type of account. From this derive the class's current and sav-acct to make them more specific to their requirements.

⇒
```java
import java.util.Scanner;
class Account {
    String customerName;
    long accno;
    String accountType;
    double balance;

    public Account(String customerName,
    long accno, String accountType) {
        this.customerName = customerName;
        this.accno = accno;
        this.accountType = accountType;
        this.balance = 0.0;
    }
    public void displayBalance() {
        System.out.println("Account Number:"
        + accno);
        System.out.println("Customer Name:"
        + customerName);
        System.out.println("Account Type:"
        + accountType);
    }
```

```java
System.out.println("Balance : $" + balance)
    }
}
class CurrAcct extends Account {
    double minBalance;
    double serviceCharge;
    public CurrAcct (String customerName,
        long accno) {
        super(customerName, accno, "Current");
        this.minBalance = 500.0;
        this.serviceCharge = 500.0;
    }
    public void withdraw (double amount) {
        if (balance - amount >= minBalance) {
            balance -= amount;
            System.out.println("Withdrawal
                Successful. Current Balance : $"
                + balance);
        }
        else {
            System.out.println("Insufficient
                funds. Withdrawal not allowed.");
        }
    }
    public void impose Service charge () {
        if (balance < minBalance) {
            balance -= serviceCharge;
            System.out.println("service charge imposed.
                Current Balance : Rs." + balance);
        }
    }
}
class SavAcct extends Account {
    double interestRate;
    public SavAcct (String customerName,
        long accno) {
        super(customerName, accno, "Savings");
        this.interestRate = 0.05;
    }
    // public void deposit Interest () {
    //     double interest = balance * interestRate;
```

```java
// balance += interest;
// System.out.println("Interest deposited:
// Current Balance: " + balance); }

public void compound Interest (double
    initialAmount, int term){
    double compound Interest = initialAmount *
        * Math.pow((1 + interestRate), term) -
        initialAmount;
    balance += compound Interest;
    System.out.println(" Compound Interest
    deposited: Current Balance: Rs" + balance);
    }
}

public class Bank {
    public static void main (String[] args)
    {
        Scanner scanner = new Scanner
            (System.io) =
        System.out.println("choose account type: ");
        System.out.println("1. Current");
        System.out.println("2. Savings");
        System.out.print("Enter choice");
        int choice = Scanner.nextInt();
        System.out; print("Enter customer Name
        ");
        String customerName = scanner.next();
        System.out.print("Enter account
        number");
        long accno = scanner.nextLong();
        if(choice == 1){
            curAcc curAccount = new
                curAcc (customerName, accno);
            System.out.print("Enter initial Balance");
            double initialBalance = scanner.
            nextDouble();
```

```
curAccount.balance = initial-Balance;
System.out.println("Enter withdrawal
    Amount");
double withdrawalAmount = scanner.next
    Double();
curAccount.withdraw(withdrawalAmount);
curAccount.imposeServiceCharge();
curAccount.displayBalance(); }
else if (choice == 2) {
    SavAcct savAccount = new
SavAcct(CustomerName, accno);
System.out.println("Enter initial balance");
double initialBalance = scanner.nextDouble();
System.out.println("Enter withdrawal Amount");
savAccount.balance = withdrawal Amount;
System.out.println("Withdrawal successful");
current Balance : $ + savAccount.balance;
System.out.print("Enter interest rate");
double interestRate = scanner.nextDouble();
savAccount.interestRate = interestRate;
savAccount.displayBalance();
System.out.print("Enter term
    (in years) for compound interest
calculation: ");
int term = scanner.nextInt();
savAccount.compoundInterest(initialBalance,
    term)
savAccount.displayBalance(); }
else{ System.out.println("Invalid
    choice"); } }
```

```
C:\Users\aksha>cd downloads

C:\Users\aksha\Downloads>javac Bank.java

C:\Users\aksha\Downloads>java Bank
Akshata Hosmani
1BM22CS031
Choose account type:
1. Current
2. Savings
Enter choice (1 or 2): 1
Enter customer name: Akshata
Enter account number: 12345
Enter initial balance: $50000
Enter withdrawal amount: $2000
Withdrawal successful. Current Balance: $48000.0
Account Number: 12345
Customer Name: Akshata
Account Type: Current
Balance: $48000.0

C:\Users\aksha\Downloads>javac Bank.java

C:\Users\aksha\Downloads>java Bank
Akshata Hosmani
1BM22CS031
Choose account type:
1. Current
2. Savings
Enter choice (1 or 2): 2
Enter customer name: Akshata
Enter account number: 12333
Enter initial balance: $278000
Enter withdrawal amount: $40000
Withdrawal successful. Current Balance: $238000.0
Enter interest rate: 7
Account Number: 12333
```

Date : 13 - 2 - 24

Q. Create a package CIE which has two classes student and Internals the class Personal has member lib. usn, name, sem. the class Internals has an array that stores the internal marks stored in five courses of the current semister of the student. Create another package SEE which has the class Extends which is a derived class of student.

→
```
package CIE
    import java.util.*;
    public class student{
    public int sem;
    public String usn;
    public String name;

    public void accept()
    { Scanner scan = new Scanner (System.in);
    System.out.println ("Enter usn, name, sem");
    sem = scan.nextInt();
    usn = scan.nextLine();
    name = scan.nextLine(); } }


package CIE;
public class Internals
{ public int im[] = new int[5]; }


package SEE;
   import CIE.student;
   public class extends student
   { public int sm[] = new int[5];
```

```java
import java.util.*;
import CIE.*;
import SEE.*;
public class FinalMarks
public static void main (String args[])
{
    int fm[] = new int [5];
    Scanner sc = new Scanner (System.in);
    System.out.println("Enter n");
    int n = sc.nextInt();
    SEE.External st[] = new SEE.External[n];
    CIE.Internals s[] = new CIE.Internals[n];
    for (int i=0; i<n; i++)
    {
        st[i] = new SEE.External();
        s[i] = new CIE.Internals();
        System.out.println("Enter details" +
                            (i+1));
        st[i].accept();

        for (int j=0; j<5; j++)
        {
            System.out.println("Enter im and
            sm of sub "+ (j+1));
            s[i].im[j] = sc.nextInt();
            st[i].sm[j] = sc.nextInt();
            fm[j] = s[i].im[j] + st[i].sm[j];
            sm[j];
        }
        System.out.println("Final marks of "
        + st[i].name );
        for (int k=0; k<5; k++)
        {
            System.out.println("course "+
            (k+1)+ " = " + fm[k]); }}
    }}
```

```
C:\Example>javac FinalMarks.java

C:\Example>java FinalMarks
Akshata Hosmani
1BM22CS031
Enter n:
1
Enter details 1
Enter U, N, S:

cs031
ABS
3
Enter im and sm of sub 1
98
99
Enter im and sm of sub 2
89
100
Enter im and sm of sub 3
80
70
Enter im and sm of sub 4
90
78
Enter im and sm of sub 5
89
90
Final marks of ABS
Course 1 = 197
Course 2 = 189
Course 3 = 150
Cohrse 4 = 168
Course 5 = 179
```

Q. Write a program that demonstrates handling of exceptions in inheritance. Create a base class "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 < 0. In son class, implement a constructor that raises both father and son's age and throws an exception if son's age is >= father's age.

⇒
```
import java.util.Scanner;

class WrongAge extends Exception {
    public WrongAge (String message)
    { super (message); } }

class father {
    int fatherage;
    public Father ( int fatherage) throws WrongAge
    {
        if (fatherage < 0)
            throw new WrongAge ("Age cannot
            be negative"); }
        this. fatherage = fatherage; } }

class son extends father {
    int sonage;
    public son (int fatherage, int sonage)
    { if throws WrongAge
        {
```

```java
if (son age > father age)
{
    throw new WrongAge ("As son age
    cannot be greater than father age");
    }
    this.sonage = sonage; }}

public class fatherson {
    public static void main (string args[])
    {
        Scanner scr = new scanner (system.in);
        System.out.println ("Enter father's
        age and son's age");
        int fage = scr.nextInt();
        int sage = sc.nextInt();
        try { father f = new Father (fage);
            son s = new son ( fage, sage);
            System.out.println (" Father's age:" +
            f. fatherage );
            system.out.println (" Son's age" +
            s. sonage);
        }
        catch (Exception e)
        { system.out. println ("Error:" +
            e. getmessage()); }}}
```

```
Microsoft Windows [Version 10.0.22631.3085]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aksha>cd downloads

C:\Users\aksha\Downloads>javac fatherson.java

C:\Users\aksha\Downloads>java fatherson
Akshata Hosmani
1BM22CS031
Enter father's age and son's age:
56
23
Father's age: 56
Son's age: 23
```

Q. Write a program which creates two threads one thread displaying "BMS collage of Engineering" once every ten seconds and another displaying "CSE" once every two seconds.

→ class A extend Thread
{
    public void run()
    {
        while (true)
        { System.out.println("BMS collage of Engineering");

            try { Thread.
                sleep(10000); }
            catch (Exception e)
            { System.out.println("Error"); }
        }
    }
}

class B extend Thread
{ public void run()
    { while (true)
        { System.out.println("CSE");
            try {
                sleep(2000); }
            catch (Exception e)
            { System.out.println("Error"); }
        }
    }
}

class th {
    public static void main(String args[])
    { A a = new A();
        B b = new B();

Q. Write a program which creates two threads one thread displaying "BMS college of Engineering" once every ten seconds and another displaying "CSE" once every two seconds.

→

```
class A extend Thread
{
    public void run()
    {
        while (true)
        {
            System.out.println(" BMS college
            of Engineering");
            try {
                Thread.
                sleep( 10000); }
            catch ( Exception e)
            { System.out. println (" Error "); } }
}

class B extend Thread
{
    public void run()
    {
        while (true)
        {
            System.out. println (" CSE");
            try {
                sleep (2000); }
            catch ( Exception e)
            { System.out. println (" Error"); } } }

class th{
    public static void main( String args())
    {
        A a = new A();
        B b = new B();
```

```
Microsoft Windows [Version 10.0.22631.3085]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aksha>cd downloads

C:\Users\aksha\Downloads>javac th.java

C:\Users\aksha\Downloads>java th
Akshata Hosmani
1BM22CS031
BMS COLLEGE OF ENGINEERING
CSE
CSE
CSE
CSE
CSE
BMS COLLEGE OF ENGINEERING
CSE
```

Date: 23-2-24

Q Write a program that creates a user interface to perform integer divisions. The user enters two numbers in 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 and or Num2 were not an integer, the program would throw a Number Format Exception. If Num2 were Zero, the program would throw an Arithmetic Exception. Display the exception in a message dialog box.

=>
```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;

class SwingDemo{
    SwingDemo()
    { JFrame jfrm = new Jframe("Divider
                               App");
        jfrm.setSize(275,150);
        jfrm.setLayout(new FlowLayout());
        jfrm.setDefault CloseOperation (JFrame.
                            EXIT_ON_close);

        JLabel jlab = new JLabel("Enter the
                divider and dividend ");

        JTextField ajtf = new JTextField(8);
        JTextField bjtf = new JTextField(8);
        JButton button = new JButton ("calculate");
        JLabel err = new JLabel();
        JLabel alab = new JLabel();
```

```
JLabel blab = new JLabel();

JLabel anslab = new JLabel();

jfrm.add(err);
jfrm.add(jlab);
jfrm.add(ajtf);
jfrm.add(bjtf);
jfrm.add(button);
jfrm.add(alab);
jfrm.add(blab);
jfrm.add(anslab);

ActionListner l = new ActionListener() {
    public void actionPerformed(ActionEvent evt)
    { System.out.println(" Action event
        from a text field"); }};

    ajtf.addActionListener(l);

    bjtf.addActionListener(l);

    button.addActionListener(new ActionListener()
    { public void actionPerformed(ActionEvent
        evt) { try {
            int a = Integer.parseInt(ajtf.get
                                        Text());

            int b = Integer.parseInt(bjtf.get
                                        Text());

            int ans = a/b;

        alab.setText("\n A = " + a);
        blab.setText("\n B = " + b);
        anslab.setText("\n Ans = " + ans); }
```

```
catch (NumberFormat Exception e){
        alab.setText(" ");
        blab.setText(" ");
        anslab.setText(" ");

    err.setText(" Enter Only Integers ");}
catch (Arithmetic_Exception e) {

    alab.setText(" ");
    blab.setText(" ");

    anslab.setText(" ");
    err.setText("B should be Non zero");
    } > >);

    jfrm.setVisible(true); }
public static void main (String args [])
    Swing Utilities.invokeLater(new
        Runnable() { public void run()
        { new SwingDemo(); } >); > >
```

output:

```
┌──────────────────────────────────────┐
│ Divider App                          │
│  ┌───────────────────────────────┐   │
│  │ Enter the divider & dividend  │   │
│  │  ┌─────────┐    ┌─────────┐   │   │
│  │  │ 45      │    │ 4       │   │   │
│  │  └─────────┘    └─────────┘   │   │
│  │  ┌─────────┐                  │   │
│  │  │Calculate│  A=45    B=4     │   │
│  │  └─────────┘  Ans =11         │   │
│  └───────────────────────────────┘   │
└──────────────────────────────────────┘
```

Divider App

Enter the divider and divident:

| 34 | 2 | **Calculate** |

A = 34 B = 2 Ans = 17

button.addActionListener(new ActionListener() {

```
Command Prompt - java Swin

Microsoft Windows [Version 10.0.22631.3155]
(c) Microsoft Corporation. All rights reserved.

C:\Users\aksha>cd downloads

C:\Users\aksha\Downloads>cd java

C:\Users\aksha\Downloads\java>javac SwingDemo.java

C:\Users\aksha\Downloads\java>java SwingDemo
```