1)a)import java.util.Scanner;

public class HelloWorld{

public static void main(String args[]){

System.out.println(“Akanksha Singa”);

System.out.println(“1BM22CS027”);

System.out.println(“enter a number:”);

Scanner reader = new Scanner(System.in);

int number = reader.nextInt();

System.out.println(“You entered :” +number);}

}

```
C:\Users\bmsce>CD C:\Users\bmsce\Desktop\1bm22cs027

C:\Users\bmsce\Desktop\1bm22cs027>javac HelloWorld.java

C:\Users\bmsce\Desktop\1bm22cs027>java HelloWorld
Akanksha Singa
1BM22CS027
Enter a number: -2
You entered: -2
```

b)import java.util.Scanner;

public class JavaExample{

public static void main(String args[]){

System.out.println(“Akanksha Singa”);

System.out.println(“1BM22CS027”);

int num;

System.out.println(“Enter an Integer number”);

Scanner input = new Scanner(System.in);

num = input.nextInt();

if(num%2==0){

System.out.println(num+“is even number”);

}

else{

System.out.println(num+“is odd number”);

}

}}

```
C:\Users\bmsce\Desktop\1bm22cs027>javac JavaExample.java

C:\Users\bmsce\Desktop\1bm22cs027>java JavaExample
Akanksha Singa
1BM22CS027
Enter an Integer: 5
5is an odd number
```

c)public class JavaExample {

public static void main(String args[]){

System.out.println(“Akanksha Singa”);

System.out.println(“1BM22CS027”);

int row, column ;

for(row=0;row<8;row++){

for(column=0;column<rows;column++){

System.out.println(“*”);}}}}

```
C:\Users\bmsce\Desktop\1bm22cs027>javac Triangle.java

C:\Users\bmsce\Desktop\1bm22cs027>java Triangle
Akanksha Singa
1BM22CS027
*
**
***
****
*****
******
*******
********
```

d)public class JavaExample{

public static void main(String args[]){

System.out.println(“Akanksha Singa”);

System.out.println(“1BM22CS027”);

int num1=15,num2=2;

int Quotient =num1/num2;

int remainder=num1%num2;

System.out.println(“Qutoient is” +Quotient);

System.out.println(“Remainder is” +remainder);}}

```
C:\Users\bmsce\Desktop\1bm22cs027>javac QandR.java

C:\Users\bmsce\Desktop\1bm22cs027>java QandR
Akanksha Singa
1BM22CS027
Quotient is : 7
Remainder is: 1
```

e)public class demo{

public static void main(String args[]){

System.out.println("Akanksha Singa");

System.out.println("1BM22CS027");

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(num1+" x "+num2+" = "+product);}}

```
C:\Users\bmsce\Desktop\1bm22cs027>javac Multiply.java

C:\Users\bmsce\Desktop\1bm22cs027>java Multiply
Akanksha Singa
1BM22CS027
Enter first number: 5
Enter second number: 2
5 x 2 = 10
```

f)public class swapnumbers{

public static void main(String args[]){

System.out.println("Akanksha Singa");

System.out.println("1BM22CS027");

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 temp=first;

first=second;

second=temp;

System.out.println(“—After Swap—“);

System.out.println(“First number”+first);

System.out.println(“Second number”+second);}}

```
C:\Users\bmsce\Desktop\1bm22cs027>javac Swap.java

C:\Users\bmsce\Desktop\1bm22cs027>java Swap
Akanksha Singa
1BM22CS027
--Before Swap--
First number= 1.2
Second number= 2.45
--After Swap--
First number= 2.45
Second number= 1.2
```

2)import java.util.Scanner;

public class QuadraticSolver {

public static void main(String[] args) {

System.out.println(“Akanksha Singa”);

System.out.println(“1BM22CS027”);

Scanner scanner = new Scanner(System.in);

System.out.println("Enter the coefficients of the quadratic equation ax^2 + bx + c = 0:");

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

double a = scanner.nextDouble();

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

double b = scanner.nextDouble();

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

double c = scanner.nextDouble();

double discriminant = b * b - 4 * a * c;

if (discriminant > 0) {

double root1 = (-b + Math.sqrt(discriminant)) / (2 * a);

double root2 = (-b - Math.sqrt(discriminant)) / (2 * a);

System.out.println("Real Solutions:");

System.out.println("Root 1: " + root1);

System.out.println("Root 2: " + root2);

} else if (discriminant == 0) {

```
        double root = -b / (2 * a);
        System.out.println("Real Solution:");
        System.out.println("Root: " + root);
    } else {
        System.out.println("No real solutions exist for the given quadratic equation.");
    }
    scanner.close();
}
```

```
C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Quadratic.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Quadratic
AKANKSHA SINGA
1BM22CS027
2
4
2
roots are real and equal
root1= -1.0  root2= -1.0

C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Quadratic.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Quadratic
AKANKSHA SINGA
1BM22CS027
0
3
5
Invalid inuput

C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Quadratic.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Quadratic
AKANKSHA SINGA
1BM22CS027
2
5
4
roots are imaginary
root1= -1.25+ i0.6614378277661477  root2= -1.25- i0.6614378277661477

C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Quadratic.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Quadratic
AKANKSHA SINGA
1BM22CS027
1
3
2
roots are real and distinct
root1= -1.0  root2= -2.0
```

3)import java.util.Scanner;

```
public class Student {
String usn;
String name;
private static int credit[] = {4,4,3,3,3,1,1,1};
int marks[] = new int [8];
Scanner s = new Scanner(System.in);
public void get_details()
        {
                System.out.println("Enter your USN:");
                usn = s.next();
            System.out.println("Enter your name:");
                name = s.next();
        }
        public void set_marks()
        {
                System.out.println("Enter your marks in order");
                for(int i=0;i<8;++i)
                {
                        marks[i] = s.nextInt();
                }
        }
        public double sgpa()
        {
              double sgpa=0,temp=0;
                for(int i=0;i<8;++i)
                {
                        temp+=credit[i]*((int)(marks[i]/10)+1);
                }
                sgpa= temp/20;
                if(sgpa == 11)
                {
                        return sgpa-1;
                }
                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) {
                        System.out.println(“Akanksha Singa”);
                System.out.println(“1BM22CS027”);
                        Student s1 = new Student();
                        s1.get_details();
                        s1.set_marks();
                        s1.display();
        }
}
```

```
C:\Users\bmsce\Desktop\1bm22cs027 ooj>cd C:\Users\bmsce\Desktop\1bm22cs027 ooj

C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Student.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Student
AKANKSHA SINGA
1BM22CS027
Enter your name:
Akanksha
Enter your usn:
1BM22CS027
Enter your marks in same order:
100
95
90
92
89
90
85
93
Name: Akanksha
USN:1BM22CS027
SGPA:9.818181818181818

C:\Users\bmsce\Desktop\1bm22cs027 ooj>
```

4)

```
import java.util.Scanner;
class Books{
   String name;
   String author;
   int price;
```

```
    int num_pages;
    public void set(int i){
        Scanner in=new Scanner(System.in);
        System.out.println("Enter details of books "+(i+1)+" in name,author,price,num_pages order");
        name=in.next();
        author=in.next();
        price=in.nextInt();
        num_pages=in.nextInt();
    }
    public String toString() {
        return "Details of Book " + (i+1)+"\n"+
                "Name: " + name + "\n" +
                "Author: " + author + "\n" +
                "Price: " + price + "\n" +
                "No of pages: " + num_pages;
    }
}
class D {
    public static void main(String[] args) {
System.out.println("Akanksha Singa");
System.out.println("1BM22CS027");
        int n;
        Scanner in=new Scanner(System.in);
        System.out.println("Enter number of books");
        n=in.nextInt();
        Books b[]=new Books[n];
        for(int i=0;i<n;i++){
            b[i]=new Books();
            b[i].set(i);
        }
        System.out.println();
        for(int i=0;i<n;i++){
            System.out.println(b[i].toString());
        }
    }
```

}

```
C:\Users\bmsce>cd C:\Users\bmsce\Desktop\1bm22cs027 ooj

C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Book.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Book
AKANKSHA SINGA
1BM22CS027
Enter no.of of books:
3
enter book name:
abc
enter author name:
def
enter price:
200
enter no. of pages:
100
enter book name:
xyz
enter author name:
uvw
enter price:
100
enter no. of pages:
50
enter book name:
fgh
enter author name:
hij
enter price:
300
enter no. of pages:
500
details of book:  name:abcauthor: defprice:200.0num_pages:100
details of book:  name:xyzauthor: uvwprice:100.0num_pages:50
details of book:  name:fghauthor: hijprice:300.0num_pages:500
```

5)import java.util.Scanner;

```
abstract class Shape {
   protected int side1;
   protected int side2;

   public Shape(int side1, int side2) {
      this.side1 = side1;
      this.side2 = side2;
   }
   public abstract void printArea();
}
```

```
class Rectangle extends Shape {
    public Rectangle(int length, int width) {
        super(length, width);
    }

    public void printArea() {
        int area = side1 * side2;
        System.out.println("Area of Rectangle: " + area);
    }
}
class Triangle extends Shape {
    public Triangle(int base, int height) {
        super(base, height);
    }
   public void printArea() {
        double area = 0.5 * side1 * side2;
        System.out.println("Area of Triangle: " + area);
    }
}

class Circle extends Shape {
    public Circle(int radius) {
        super(radius, radius);
    }

    public void printArea() {
        double area = Math.PI * side1 * side1;
        System.out.println("Area of Circle: " + area);
    }
}

public class Main {
    public static void main(String[] args) {
System.out.println(“Akanksha Singa”);
System.out.println(“1BM22CS027”);

        Scanner scanner = new Scanner(System.in);
```

```
        System.out.print("Enter length of Rectangle: ");
        int length = scanner.nextInt();
        System.out.print("Enter width of Rectangle: ");
        int width = scanner.nextInt();
        Rectangle rectangle = new Rectangle(length, width);

        System.out.print("Enter base of Triangle: ");
        int base = scanner.nextInt();
        System.out.print("Enter height of Triangle: ");
        int height = scanner.nextInt();
        Triangle triangle = new Triangle(base, height);

        System.out.print("Enter radius of Circle: ");
        int radius = scanner.nextInt();
        Circle circle = new Circle(radius);

        scanner.close();

        rectangle.printArea();
        triangle.printArea();
        circle.printArea();
    }
```

```
C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Area.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Area
AKANKSHA SINGA
1BM22CS027
area of Rectangle: 200
area of Triangle: 100
area of Circle: 78.5
```

```
}
```

6)

```
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);
        System.out.println("Balance: $" + balance);
    }
}
class CurAcct extends Account {
    double minBalance;
    double serviceCharge;
    public CurAcct(String customerName, long accno) {
        super(customerName, accno, "Current");
        this.minBalance = 500.0; // Set minimum balance
        this.serviceCharge = 50.0; // Set service charge
    }
    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 imposeServiceCharge() {
        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 depositInterest() {
        double interest = balance * interestRate;
        balance += interest;
        System.out.println("Interest deposited. Current Balance: $" + balance);
    }

    public void compoundInterest(double initialAmount, int term) {
        double compoundInterest = initialAmount * Math.pow((1 + interestRate), term) - initialAmount;
        balance += compoundInterest;
        System.out.println("Compound Interest deposited. Current Balance: Rs." + balance);
    }
}
public class Bank {
    public static void main(String[] args) {
System.out.println(“Akanksha Singa”);
System.out.println(“1BM22CS027”);
        Scanner scanner = new Scanner(System.in);
        System.out.println("Choose account type:");
        System.out.println("1. Current");
        System.out.println("2. Savings");
        System.out.print("Enter choice (1 or 2): ");
        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) {
            CurAcct curAccount = new CurAcct(customerName, accno);
            System.out.print("Enter initial balance: $");
            double initialBalance = scanner.nextDouble();
            curAccount.balance = initialBalance;
```

```
        System.out.print("Enter withdrawal amount: $");
        double withdrawalAmount = scanner.nextDouble();
        curAccount.withdraw(withdrawalAmount);
        curAccount.imposeServiceCharge();
        curAccount.displayBalance();
    } else if (choice == 2) {
        SavAcct savAccount = new SavAcct(customerName, accno);
        System.out.print("Enter initial balance: $");
        double initialBalance = scanner.nextDouble();
        savAccount.balance = initialBalance;
        System.out.print("Enter withdrawal amount: $");
        double withdrawalAmount = scanner.nextDouble();
        savAccount.balance -= withdrawalAmount;
        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\bmsce\Desktop\1bm22cs027 ooj>javac Bank.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Bank
AKANKSHA SINGA
1BM22CS027
Choose account type:
1. Current
2. Savings
Enter choice (1 or 2): 1
Enter customer name: Akanksha
Enter account number: 027027027
Enter initial balance: $800
Enter withdrawal amount: $400
Insufficient funds. Withdrawal not allowed.
Account Number: 27027027
Customer Name: Akanksha
Account Type: Current
Balance: $800.0

C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac Bank.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java Bank
AKANKSHA SINGA
1BM22CS027
Choose account type:
1. Current
2. Savings
Enter choice (1 or 2): 1
Enter customer name: Akanksha
Enter account number: 027027027
Enter initial balance: $400
Enter withdrawal amount: $100
Insufficient funds. Withdrawal not allowed.
Service charge imposed. Current Balance: Rs.350.0
Account Number: 27027027
Customer Name: Akanksha
Account Type: Current
Balance: $350.0
```
}

7)package CIE;

```
import java.util.*;

public class Student

{

   // instance variables - replace the example below with your own

   public int sem;
```

```
   public String usn;
   public String name;

   public void accept()
   {
      Scanner scan = new Scanner(System.in);
      System.out.println("Enter U, N, S:\n");
      usn=scan.nextLine();
      name=scan.nextLine();
      sem=scan.nextInt();
   }
}
package CIE;

public class Internals
{
   public int im[]=new int[5];
}
package SEE;
import CIE.Student;
public class External extends Student
{
   // instance variables - replace the example below with your own
   public int sm[]=new int[5];
}
import java.util.*;
import SEE.*;
import CIE.*;
public class FinalMarks
{
   public static void main(String args[])
   {System.out.println("Akanksha Singa");
System.out.println("1BM22CS027");
      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];
           }
           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:\Users\bmsce\Desktop\1bm22cs027 ooj\week 6>javac -d . FinalMarks.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj\week 6>java FinalMarks
AKANKSHA SINGA
1BM22CS027
enter no. of students:
2
Enter details of 1
enter usn name and sem:
1BM22CS027
AKANKSHA
2
Enter internal and external marks:
49
49
Enter internal and external marks:
50
50
Enter internal and external marks:
48
48
Enter internal and external marks:
47
47
Enter internal and external marks:
46
46
Final marks of AKANKSHA
Course 1=98
Course 2=100
Course 3=96
Course 4=94
Course 5=92
Enter details of 2
enter usn name and sem:
1BM22CS027
akanksha
1
Enter internal and external marks:
50
46
Enter internal and external marks:
49
47
Enter internal and external marks:
48
48
Enter internal and external marks:
47
49
Enter internal and external marks:
50
46
Final marks of akanksha
Course 1=96
Course 2=96
Course 3=96
Course 4=96
Course 5=96
```

8)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) throws WrongAge {
        super(fatherAge);
        if (sonAge >= fatherAge) {
            throw new WrongAge("Son's age must be less than Father's age");
        }
        this.sonAge = sonAge;
    }
}
public class fatherson {
    public static void main(String[] args) {
System.out.println(“Akanksha Singa”);
System.out.println(“1BM22CS027”);
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter father's age and son's age: ");
        int fa=sc.nextInt();
        int sa=sc.nextInt();
        try {
            Son s = new Son(fa, sa);
            System.out.println("Father's age: " + s.fatherAge);
            System.out.println("Son's age: " + s.sonAge);
```

```
    } catch (WrongAge e) {
      System.out.println("Error: " + e.getMessage());
    }
  }
}
```

```
C:\Users\bmsce>cd C:\Users\bmsce\Desktop\1bm22cs027 ooj

C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac fatherson.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java fatherson
AKANKSHA SINGA
1BM22CS027
Enter father's age and son's age:
-1
2
Error: Age cannot be negative

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java fatherson
AKANKSHA SINGA
1BM22CS027
Enter father's age and son's age:
20
30
Error: Son's age must be less than Father's age

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java fatherson
AKANKSHA SINGA
1BM22CS027
Enter father's age and son's age:
2
1
Father's age: 2
Son's age: 1
```

9)

```
class A extends Thread
{
  int t1,time;
  A(){
    t1=10000;
    time=21000;
  }
  public void run()
```

```
    {
        while(t1<=time)
        {
            System.out.println("BMS COLLEGE OF ENGINEERING");
            try {
                sleep(10000);
            } catch(Exception e) {
                System.out.println("error");
            }
            t1+=10000;
        }}
}
class B extends Thread{
    int t2,time;
    B(){
        time=21000;
        t2=2000;
    }
    public void run()
    {
        while(t2<=time)

        {
            System.out.println("CSE");
            try{
                sleep(2000);
            }
            catch(Exception e)
            {
                System.out.println("error");
            }
            t2+=2000;
        }}
}
class th
{
    public static void main(String args[])
    { System.out.println(“Akanksha Singa”);
```

```
System.out.println("1BM22CS027");
      A a=new A();
      B b=new B();
      a.start();
      b.start();
  }
```

```
C:\Users\bmsce>cd C:\Users\bmsce\Desktop\1bm22cs027 ooj

C:\Users\bmsce\Desktop\1bm22cs027 ooj>javac multithread.java

C:\Users\bmsce\Desktop\1bm22cs027 ooj>java multithread
AKANKSHA SINGA
1BM22CS027
BMS COLLEGE OF ENGINEERING
CSE
CSE
CSE
CSE
BMS COLLEGE OF ENGINEERING
CSE
CSE
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10)

```
import javax.swing.*;
import java.awt.*;
import java.awt.event.*;
class SwingDemo{
SwingDemo(){
JFrame jfrm = new JFrame("Divider App");
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jfrm.setSize(275, 150);
jfrm.setLayout(new FlowLayout());
jfrm.setDefaultCloseOperation(JFrame.EXIT_ON_CLOSE);
JLabel jlab = new JLabel("Enter the divider and divident:");
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);
ActionListener 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.getText());
int b = Integer.parseInt(bjtf.getText());
int ans = a/b;
alab.setText("\nA = " + a);
blab.setText("\nB = " + b);
anslab.setText("\nAns = "+ ans);
}
catch(NumberFormatException e){
alab.setText("");
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blab.setText("");
anslab.setText("");
err.setText("Enter Only Integers!");
}
catch(ArithmeticException e){
alab.setText("");
blab.setText("");
anslab.setText("");
err.setText("B should be NON zero!");
}
}
});
jfrm.setVisible(true);
}
public static void main(String args[]){
SwingUtilities.invokeLater(new Runnable(){
public void run(){
new SwingDemo();
}
});
}
}
```