

B.M.S. COLLEGE OF ENGINEERING
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DEPARTMENT OF COMPUTER SCIENCE AND ENGINEERING



LAB REPORT

On

Object Oriented Java Programming
(23CS3PCOOJ)

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1BM22CS038

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LAB-1: QUADRATIC EQUATION

Develop a Java program that prints all real solutions to the quadratic equation $ax^2+bx+c=0$. 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.

```
import java.util.Scanner;

public class SquareRoot{

    public static void main(String[] args){

        System.out.println("1BM22CS038 ");

        System.out.println("Anagha Bharadwaj");

        Scanner s= new Scanner(System.in);

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

        int a=s.nextInt();

        int b=s.nextInt();

        int c=s.nextInt();

        if(a==0){

            System.out.println("Enter valid value of a");

        }

        else{

            int d=b*b-4*a*c;

            if(d>0){

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

                float r1= (float)((-b+Math.sqrt(d))/(2*a));

                float r2= (float)((-b-Math.sqrt(d))/(2*a));

                System.out.println(r1);

                System.out.println(r2);

            }

            else if(d<0){

                System.out.println("Roots are imaginary");

            }

        }

    }

}
```

```

    }
    else{
        System.out.println("Roots real and equal");
        float r=(float)-b/(2*a);
        System.out.println(r);
    }
}
}
}
}

```

OUTPUT :

```

C:\Users\Admin\Desktop\1BM22CS038>javac SquareRoot.java

C:\Users\Admin\Desktop\1BM22CS038>java SquareRoot
1BM22CS038
Anagha Bharadwaj
Enter the coefficients:
1 -2 1
Roots are real and equal
Root is: 1.0

C:\Users\Admin\Desktop\1BM22CS038>java SquareRoot
1BM22CS038
Anagha Bharadwaj
Enter the coefficients:
1 -3 2
Roots are real and distinct
Roots are: 2.0 1.0

C:\Users\Admin\Desktop\1BM22CS038>java SquareRoot
1BM22CS038
Anagha Bharadwaj
Enter the coefficients:
1 1 1
Roots are imaginary

```

LAB-2: STUDENT SGPA CALCULATION

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

```
import java.util.Scanner;

public class Sgpa {

    String usn;

    String name;

    private static int credit[] = {4,4,3,3,3,1,1,1};

    private int numOfSub = 8;

    int marks[] = new int [numOfSub];

    Scanner s = new Scanner(System.in)

    Student()

    {

        System.out.println("Enter your details below to calculate your SGPA\n");

        get_details();

        set_marks();

        display();

    }

    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<numOfSub;++i)
    {
        marks[i] = s.nextInt();
    }
}

public double sgpa()
{
    double sgpa=0,temp=0;
    for(int i=0;i<numOfSub;++i)
    {
        if(marks[i]>=40) {
            if(marks[i]==100)
            {
                temp += credit[i] * ((int) (marks[i] / 10) );
            }
            else
            {
                temp += credit[i] * ((int) (marks[i] / 10)+1 );
            }
        }
        else
        {
            temp+= 0;
        }
    }
}

```

```

    }

    sgpa= temp/20;

    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("1BM22CS038 ");
    System.out.println("Anagha Bharadwaj");
    Student s1 = new Student();
}

```

OUTPUT :

```

C:\Users\Admin\Desktop\1BM22CS038>javac Sgpa.java

C:\Users\Admin\Desktop\1BM22CS038>java Sgpa
1BM22CS038
Anagha Bharadwaj
Enter your details below to calculate your SGPA

Enter your USN:
123
Enter your name:
anagha
Enter your marks in order
100 98 97 90 92 100 99 98
Name: anagha
USN: 123
SGPA: 10.0

```

LAB-3: BOOK DETAILS

Create a class Book which contains four members: name, author, price, num_pages. Include a constructor to set the values for the members. Include methods to set and get the details of the objects. Include a toString() method that could display the complete details of the book. Develop a Java program to create n book objects.

```
import java.util.Scanner;

class book
{
    String name;
    String author;
    float price;
    int num_pages;

    void set_details()
    {
        Scanner sc=new Scanner(System.in);
        System.out.println("enter bookname,author,price,num_pages");
        name=sc.next();
        author=sc.next();
        price=sc.nextFloat();
        num_pages=sc.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+"
pages and costs around "+price;
}

public static void main(String []args)
{
    System.out.println("1BM22CS038 ");
    System.out.println("Anagha Bharadwaj");
    Scanner s=new Scanner(System.in);
    System.out.println("enter no of books you want to generate");
    int n=s.nextInt();
    book b[]=new book[n];
    for(int i=0;i<n;i++)
    {
        b[i]=new book();
        b[i].set_details();
    }
    System.out.println("book details");
    System.out.println();
    for(int i=0;i<n;i++)
    {
        b[i].get_details();
    }
}
}

```

OUTPUT :

```
C:\Users\Admin\Desktop\1BM22CS038>javac book.java

C:\Users\Admin\Desktop\1BM22CS038>java book
1BM22CS038
Anagha Bharadwaj
enter no of books you want to generate
2
enter bookname,author,price,num_pages
Abc
Mark_Howard
550
240
enter bookname,author,price,num_pages
Xyz
David_psync
999
154
book details

the book Abc was written by Mark_Howard it consists of 240 pages and costs around 550.0
the book Xyz was written by David_psync it consists of 154 pages and costs around 999.0
```

LAB-4: AREA CALCULATION

Develop a Java program to create an abstract class named Shape that contains two integers and an empty method named 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 a,b;
    abstract void printArea();
}

class Rectangle extends Shape{
    Rectangle(int l,int br){
        a=l;
        b=br;
    }
    void printArea(){
        int area=a*b;
        System.out.println("Area of rectangle: "+area);
    }
}

class Triangle extends Shape{
    Triangle(int ba,int h){
        a=ba;
        b=h;
    }
    void printArea(){
        double area = 0.5*a*b;
```

```

        System.out.println("Area of the triangle: "+area);
    }
}
class Circle extends Shape{
    Circle(int r){
        a=r;
    }
    void printArea(){
        double area=3.14*a*a;
        System.out.println("Area of Circle: "+area);
    }
}
class AreaCalculation {
    public static void main(String[] args) {
        System.out.println("1BM22CS038 ");
        System.out.println("Anagha Bharadwaj");
        Scanner in=new Scanner(System.in);
        System.out.println("Enter length and breadth of a rectangle:");
        Rectangle rec=new Rectangle(in.nextInt(), in.nextInt());
        rec.printArea();
        System.out.println("Enter base and height of a triangle: ");
        Triangle tri = new Triangle(in.nextInt(), in.nextInt());
        tri.printArea();
        System.out.println("Enter the radius of a circle:");
        Circle cir = new Circle(in.nextInt());
        cir.printArea();
    }
}

```

OUTPUT :

```
C:\Users\Admin\Desktop\1BM22CS038>javac AreaCalculation.java

C:\Users\Admin\Desktop\1BM22CS038>java AreaCalculation
1BM22CS038
Anagha Bharadwaj
Enter length and breadth of a rectangle:
10 10
Area of rectangle: 100
Enter base and height of a triangle:
20 5
Area of the triangle: 50.0
Enter the radius of a circle:
15
Area of Circle: 706.5
```

LAB-5: BANK ACCOUNT DETAILS

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 classes Cur-acct and Sav-acct to make them more specific to their requirements. Include the necessary methods in order to achieve the following tasks:

- a) Accept deposit from customer and update the balance.
- b) Display the balance.
- c) Compute and deposit interest
- d) Permit withdrawal and update the balance

Check for the minimum balance, impose penalty if necessary and update the balance.

```
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("1BM22CS038");
        System.out.println("Anagha Bharadwaj\n");
        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;

```

```
        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");  
    }  
}  
}
```

OUTPUT :

```
C:\Users\Admin\Desktop\1BM22CS038>javac bank.java

C:\Users\Admin\Desktop\1BM22CS038>java bank
1BM22CS038
Anagha Bharadwaj

Choose account type:
1. Current
2. Savings
Enter choice (1 or 2): 1
Enter customer name: anagha
Enter account number: 1232
Enter initial balance: 1000
Enter withdrawal amount: 300
Withdrawal successful. Current Balance: 700.0
Account Number: 1232
Customer Name: anagha
Account Type: Current
Balance: 700.0

C:\Users\Admin\Desktop\1BM22CS038>java bank
1BM22CS038
Anagha Bharadwaj

Choose account type:
1. Current
2. Savings
Enter choice (1 or 2): 2
Enter customer name: anagha
Enter account number: 1909
Enter initial balance: 1000
Enter withdrawal amount: $300
Withdrawal successful. Current Balance: 700.0
Enter interest rate: 5
Enter term (in years) for compound interest calculation: 5
Compound Interest deposited. Current Balance: 7775700.0
Account Number: 1909
Customer Name: anagha
Account Type: Savings
Balance: 7775700.0
```

LAB-6: CALCULATION OF MARKS

Create a package CIE which has two classes- Student and Internals. The class Personal has members like usn, name, sem. 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 External 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 the two packages in a file that declares the final marks of n students in all five courses.

```
//CIE PACKAGE

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 U , N , S:\n");
        usn=scan.nextLine();
        name=scan.nextLine();
        sem=scan.nextInt();
    }
}

//Internals.java

package CIE;
```

```

public class Internal {
    public int im[] = new int[5];
}

//SEE PACKAGE
package SEE;
import CIE.Student;
public class External extends Student {
    public int sm[] = new int[5];
}

//FinalMarks.java
import java.util.*;
import SEE.*;
import CIE.*;
public class Finalmarks
{
    public static void main(String args[])
    {
        System.out.println("Name: Anagha Bharadwaj");
        System.out.println("USN: 1BM22CS038 ");
        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.Internal s[]=new CIE.Internal[n];
        for(int i=0; i<n; i++)
    
```

```

{
    st[i]=new SEE.External();
    s[i]=new CIE.Internal();
    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]);
    }
}
}

```

OUTPUT :

```
Name: Anagha Bharadwaj
USN: 1BM22CS038
```

```
Enter n:
```

```
1
```

```
Enter details 1
```

```
Enter U, N, S:
```

```
12
```

```
Anagha
```

```
2
```

```
Enter im and sm of sub 1
```

```
95 95
```

```
Enter im and sm of sub 2
```

```
96 96
```

```
Enter im and sm of sub 3
```

```
97 97
```

```
Enter im and sm of sub 4
```

```
93 93
```

```
Enter im and sm of sub 5
```

```
92 92
```

```
Final marks of Anagha
```

```
Course 1 = 95
```

```
Course 2 = 96
```

```
Course 3 = 97
```

```
Course 4 = 93
```

```
Course 5 = 92
```

LAB-7: EXCEPTION HANDLING

Write a program 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<0. In Son class, implement a constructor that cases both father and son’s age and throws an exception if son’s age is >=father’s age.

```
import java.lang.*;
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;
}
}
class AgeOfSonFather {
    public static void main(String[] args) {
        Scanner sc = new Scanner(System.in);
        System.out.println("Name: Anagha Bharadwaj");
        System.out.println("USN: 1BM22CS038 ");
        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());
        }
    }
}

```

OUTPUT :

```
PS C:\Users\Admin\Desktop\1BM22CS038> javac AgeOfSonFather.java
PS C:\Users\Admin\Desktop\1BM22CS038> java AgeOfSonFather
Name:Anagha Bharadwaj
USN:1BM22CS038

Enter fathers and sons age: 40 15
Father's age: 40
Son's age: 15
PS C:\Users\Admin\Desktop\1BM22CS038> java AgeOfSonFather
Name:Anagha Bharadwaj
USN:1BM22CS038

Enter fathers and sons age: 20 30
Son's age must be lesser than fathers age
```

LAB-8: MULTI THREADING

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 One extends Thread
{
    int t1;

    One(){
        t1=1;

    }

    public void run()
    {
        while(t1<=2)
        {
            System.out.println("BMS COLLEGE OF ENGINEERING");

            try {
                sleep(10000);
            } catch(Exception e) {
                System.out.println(e.toString());
            }

            t1++;
        }
    }
}

class Two extends Thread{
    int t2;
```

```

Two(){
    t2=1;
}
public void run()
{
    while(t2<=5)
    {
        System.out.println("CSE");
        try{
            sleep(2000);
        }
        catch(Exception e)
        {
            System.out.println(e.toString());
        }
        t2++;
    }
}
class Threads
{
    public static void main(String args[])
    {
        System.out.println("Name: Anagha Bharadwaj");
        System.out.println("USN: 1BM22CS038 \n");
        One t1=new One();
        Two t2=new Two();
        t1.start();
        t2.start();
    }
}

```

OUTPUT :

```
PS C:\Users\Admin\Desktop\1BM22CS038> javac Threads.java
PS C:\Users\Admin\Desktop\1BM22CS038> java Threads
Name:Anagha Bharadwaj
USN:1BM22CS038

BMS College of Engineering
CSE
CSE
CSE
CSE
CSE
} BMS College of Engineering
```

LAB-9: AWT

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 or Num2 were not an integer, the program would throw a NumberFormatException. 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.setDefaultCloseOperation(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);
```

```
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("");
            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!");
        }
    }
};

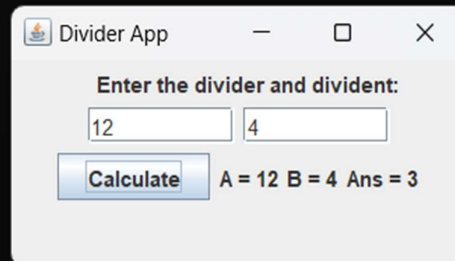
jfrm.setVisible(true);
}

public static void main(String args[]){
    System.out.println("Name: Anagha Bharadwj");
    System.out.println("USN: 1BM22CS038 ");
    SwingUtilities.invokeLater(new Runnable(){
        public void run(){
            new SwingDemo();
        }
    });
}
}

```

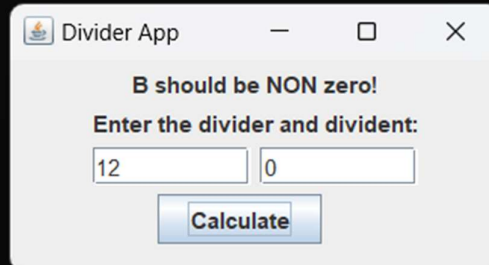

OUTPUT :

```
PS C:\Users\Anagh\OneDrive\Desktop\00PS> javac SwingDemo.java
PS C:\Users\Anagh\OneDrive\Desktop\00PS> java SwingDemo
Name: Anagha Bharadwj
USN: 1BM22CS038
```



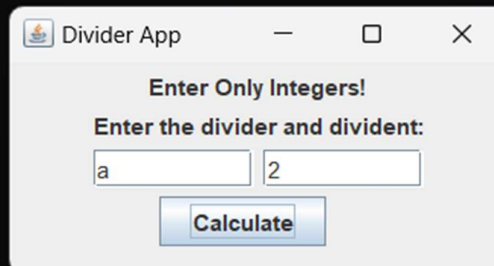
The screenshot shows a Java Swing window titled "Divider App". It contains a label "Enter the divider and dividend:" above two text input fields. The first field contains "12" and the second contains "4". Below the fields is a "Calculate" button. To the right of the button, the text "A = 12 B = 4 Ans = 3" is displayed.

```
PS C:\Users\Anagh\OneDrive\Desktop\00PS> java SwingDemo
Name: Anagha Bharadwj
USN: 1BM22CS038
```



The screenshot shows the "Divider App" window with an error message "B should be NON zero!" displayed above the input fields. The label "Enter the divider and dividend:" is still present. The first input field contains "12" and the second contains "0". A "Calculate" button is located below the fields.

```
PS C:\Users\Anagh\OneDrive\Desktop\00PS> java SwingDemo
Name: Anagha Bharadwj
USN: 1BM22CS038
```



The screenshot shows the "Divider App" window with an error message "Enter Only Integers!" displayed above the input fields. The label "Enter the divider and dividend:" is still present. The first input field contains the letter "a" and the second contains the number "2". A "Calculate" button is located below the fields.