

```

import java.util.Scanner;
class UserDefined extends Exception{
    @Override
    public String toString(){
        return " You are not allowed to Vote.";
    }
}
public class ThrowKey {
    public static void main(String args[]){
        int age;
        Scanner sc = new Scanner(System.in);
        System.out.print(" Enter your age: ");
        age = sc.nextInt();
        try{
            if(age >= 18){
                System.out.println(" You can Vote.");
            }
            else{
                sc.close();
                throw new UserDefined();
            }
        }
        catch(UserDefined e){
            System.out.println(e);
        }
        sc.close();
    }
}

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C:\WINDOWS\system32\cmd.exe
D:\Academics\Semester 4\Java_Test>java ThrowKey
Enter your age: 20
You can Vote.

D:\Academics\Semester 4\Java_Test>java ThrowKey
Enter your age: 17
You are not allowed to Vote.

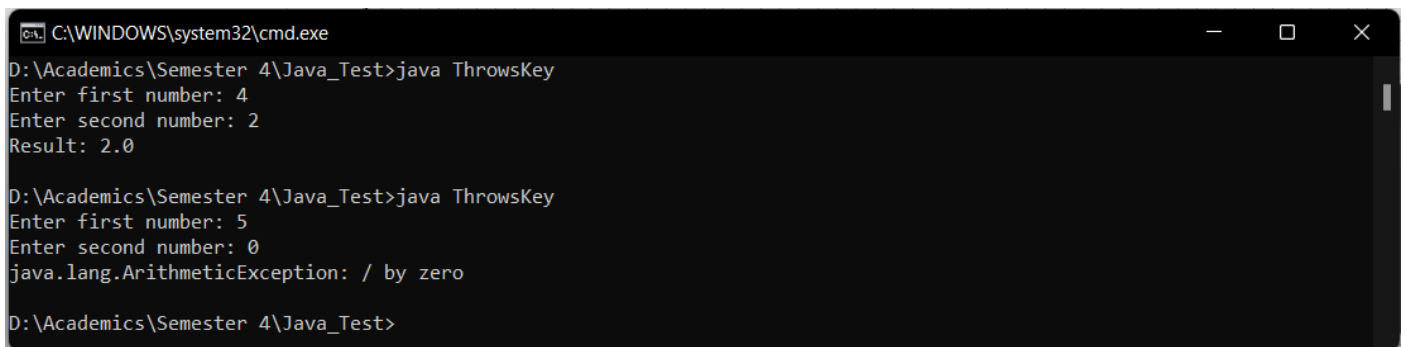
D:\Academics\Semester 4\Java_Test>

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```

import java.util.Scanner;
public class ThrowsKey {
    public double cal(int a, int b) throws ArithmeticException{
        double res;
        res = a / b;
        return res;
    }
    public static void main(String args[]){
        int a, b;
        double r;
        Scanner sc = new Scanner(System.in);
        System.out.print("Enter first number: ");
        a = sc.nextInt();
        System.out.print("Enter second number: ");
        b = sc.nextInt();
        ThrowsKey obj = new ThrowsKey();
        try{
            r = obj.cal(a, b);
            System.out.println("Result: "+r);
        }
        catch(ArithmeticException e){
            System.out.println(e);
        }
        sc.close();
    }
}

```



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C:\WINDOWS\system32\cmd.exe
D:\Academics\Semester 4\Java_Test>java ThrowsKey
Enter first number: 4
Enter second number: 2
Result: 2.0

D:\Academics\Semester 4\Java_Test>java ThrowsKey
Enter first number: 5
Enter second number: 0
java.lang.ArithmeticException: / by zero

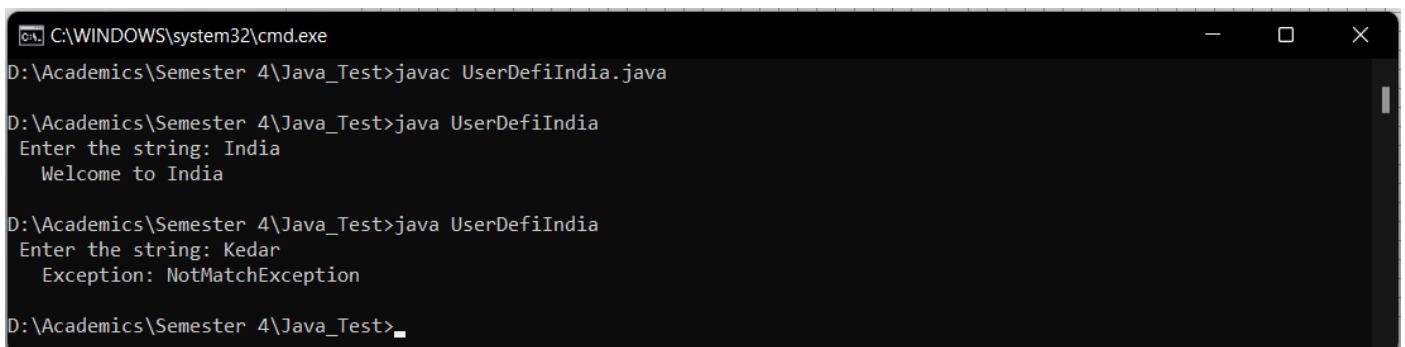
D:\Academics\Semester 4\Java_Test>

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```

import java.util.Scanner;
class NotMatchException extends Exception{
    @Override
    public String toString(){
        return "NotMatchException";
    }
}
public class UserDefiIndia {
    public static void main(String args[]){
        String str;
        Scanner sc = new Scanner(System.in);
        System.out.print(" Enter the string: ");
        str = sc.nextLine();
        try{
            if(str.equals("India") || str.equals("INDIA")){
                System.out.println(" Welcome to India");
            }
            else{
                sc.close();
                throw new NotMatchException();
            }
        }
        catch(NotMatchException e){
            System.out.print(" Exception: ");
            System.out.println(e);
        }
        sc.close();
    }
}

```



```

C:\WINDOWS\system32\cmd.exe
D:\Academics\Semester 4\Java_Test>javac UserDefiIndia.java

D:\Academics\Semester 4\Java_Test>java UserDefiIndia
Enter the string: India
Welcome to India

D:\Academics\Semester 4\Java_Test>java UserDefiIndia
Enter the string: Kedar
Exception: NotMatchException

D:\Academics\Semester 4\Java_Test>

```