**DUAMIRANI**

**LAB 07 TASKS**

**Question#1**

**import java.util.Scanner;**

**public class Lab07 {**

**public static void main(String[] args) {**

**Scanner inp=new Scanner(System.in);**

**int a= inp.nextInt();**

**int b=50;**

**try {**

**if(a==0){**

**System.out.print(" Arithmetic exception occur ");**

**}**

**else {**

**System.out.println(b/a);**

**}**

**}**

**catch (Exception e){**

**System.out.println(e);**

**}**

**}**

**}**

**Question #2**

**import java.util.Scanner;**

**public class Lab07 {**

**public static void main(String[] args) {**

**Scanner s=new Scanner(System.in);**

**int i[]={0,1,2,3,4};**

**int a=0,b=0,input;**

**String str=null;**

**// arithmetic**

**System.out.println("input the 2 number for division");**

**a=s.nextInt();**

**b=s.nextInt();**

**if(b==0){**

**throw new ArithmeticException("can't divide by zero");**

**}**

**else {**

**System.out.println(a/b);**

**}**

**//ArrayIndexOutOfBond**

**System.out.println("input the index of number which you want to check");**

**input=s.nextInt();**

**if(input>=i.length){**

**throw new ArrayIndexOutOfBoundsException("out of bound");**

**}**

**else {**

**System.out.println(i[input]);**

**}**

**//NullPointerException**

**if (str==null)**

**{ throw new NullPointerException("String is empty"); }**

**else {**

**System.out.println(str);**

**}**

**}**

**}**

**Question#3**

**final class NegativeIntegerException extends Exception {**

**public boolean check(int a) {**

**if (a < 0) {**

**return true;**

**}**

**return false;**

**}**

**}**

**class Lab07 {**

**public static void main(String[] args) {**

**Scanner sc = new Scanner(System.in);**

**int a = sc.nextInt();**

**NegativeIntegerException obj =new NegativeIntegerException();**

**try {**

**if(obj.check(a)){**

**System.out.println("exception occur"+" " +obj.check(a));**

**}**

**}**

**catch (Exception ex){**

**System.out.println("positive number"+ex+ " "+obj.check(a));**

**}**

**}**

**}**

**Question#4**

**import java.lang.Exception;**

**import java.util.Scanner;**

**class MyException extends Exception{**

**public void Eligible( ) {**

**System.out.println("You are eligible:");**

**}**

**public void NotEligible(){**

**System.out.println("you are not eligible:");**

**}**

**}**

**class Lab07{**

**public static void main(String[] args) {**

**MyException e = new MyException();**

**int age;**

**System.out.println("enter your age: ");**

**Scanner sc = new Scanner(System.in);**

**age= sc.nextInt();**

**try {**

**if (age>=18){**

**e.Eligible( );**

**}**

**else**

**e.NotEligible(); }**

**catch(Exception a){**

**e.NotEligible(); }**

**}**

**}**

**Question#5**

**import java.lang.Exception;**

**import java.util.Scanner;**

**class Help extends Exception{**

**Help( ){**

**System.out.println("Constructor");**

**}**

**}**

**class Lab07 {**

**public static void main(String[] args) {**

**Help h1 = new Help();**

**String str;**

**System.out.println("enter password: ");**

**Scanner sc = new Scanner(System.in);**

**str = sc.nextLine();**

**try{**

**for(int i=0; i<=str.length(); i++) {**

**if(str.contains("\*") && str.length()<=8) {**

**System.out.println(str);**

**}**

**else**

**System.out.println("does not occur:");**

**break;**

**}**

**}**

**catch(Exception e){**

**System.out.println(e);**

**}**

**}**

**}**