



tomException.java MyCalculator.java *CreateFile.java Problem1.java

package LAB;

/*Problem: 2

Write a program in Java to create a file in Java using Exception Handling.

*/

import java.io.*;

public class CreateFile {

public static void main(String args[]) { //main method...

try { //try block

File f=new File("C:\\Users\\ASUS\\Desktop\\1st java program\\operatorex\\"
+ "Java\\pen.txt"); //creating object

if(f.createNewFile())

{

System.out.println("File "+ f.getName() + "is created successfully");//printing
//the message

}

else {

System.out.println("already exists....");

}

} catch(IOException i) { //catch block

System.out.println("Exception handeled....");

i.printStackTrace();

}

}}

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File pen.txtis

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IN



CustomException.java × MyCalculator.java

package LAB;

/*Problem: 3

Write a program to create custom exception in java.*/

//1st part

public class CustomException extends Exception { //extends the class

String str;

CustomException(String str){ //creating constructor.

this.str=str;

}

public String toString() { //toString method for display the output.

return ("message= "+str);

}

}

class TestException { //creating the another class

public static void main(String[] args) { //main method

try { //try block

throw new CustomException("Due to invalid value");

} catch (Exception e) { //catch block

System.out.println(e); //print the exception.

}}

}

Problems @ Javadoc Declaration

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message= Due to invalid va

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Calculator.java X

```
not be negative. . Also, if both n and p are zero, then the method  
exception which says "n and p should not be zero."  
Create a class MyCalculator which consists of a single method lo  
power(int, int). This method takes two integers, n and p, as par  
and finds  $n^p$ . If either n or p is negative, then the method mu  
throw an exception which says "n or p should not be negative."  
Also, if both n and p are zero, then the method must throw an  
exception which says "n and p should not be zero.*/  
import java.util.Scanner;  
public class MyCalculator {  
    public int power(int n, int p) throws Exception {  
  
        if (n < 0 || p < 0) { //giving the 1st condition  
            throw new Exception("n or p should not be negative."); //print t  
        } else if (n == 0 && p == 0) { //giving the 2nd condition  
            throw new Exception("n and p should not be zero."); //print the  
        } else {  
            return (int) Math.pow(n, p);    }  
    }  
}  
class main {  
    static MyCalculator mycalculator = new MyCalculator();  
    static Scanner in = new Scanner(System.in); //creat  
    public static void main(String[] args) { //main met  
        while (in.hasNextInt()) {  
            int n = in.nextInt();  
            int p = in.nextInt();  
            try { //try block  
                System.out.println(mycalculator.power(n, p));  
            } catch (Exception e) {  
                System.out.println(e); //printing the excep  
            }  
        }  
    }  
}
```

Problems @ Javadoc Declaration Console >

TestException [Java Application] C:\Program Files\Java\jdk-1

```
12 2  
144  
2 10  
1024  
0 0  
java.lang.Exception: n and p sho  
2 -1  
java.lang.Exception: n or p shou
```

Writable

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18:38:966

