throw new evengage Exception ("Father's age cannot be negative"); this fatherage = age; System out pointln (" Father's age set to: "+ this fattres age); Class son extends Father public Son (int fatherage, int sonage) throws super (fatherage);
if (sonage) = fatherage) throw new wrong Age (Son's age cannot be greater than or equal to father"); this sonage = sonage System out println ("Son's age set to: "+ flis sonage

Date			
111111111111111111111111111111111111111	 	_	

White a program that demonstrates handling of cexception in inheritance tree Create a base class called "son" cobich called "Fothers" and derived class called "son" cobich extends the base class. In tather class, implement a constructor which takes the age and throws on exception wrong Age () cohental input age <0. In son class, implement a constructor that uses both father and son's age and throw an exception if spn's age is >= father's age.

Program:

Chass WrongAge extends exception

public WrongAge (String message)

neper (message);

9

class Fateres

int fathesage:

putslic Fathes (rut age) throws wrong Age

if (age < 6)

public class Main public static void main (String 13 asys) Scannes Sc= new Scannes (System in); System · out · perutly (1 Eerter (father's age · 11); int fatherage = sc. next Int). Cystern out pointly [" Enter son's age: "); int sonage = sc-nexttent(); Son son = new son (fatherage, sonage); System out printly ("Fakersage: " + Son.age); System-out-psintln ("son's age: " + son sonage); catch (Wrong Exceptione) System-out println (" Error: "+ e. get Message ()) catch (Exception e) System out printle ("tenexported essor:"+ e. get Mexage (finally , y Sc. dose ()

```
C:\Windows\System32\cmd.exe
```

C:\Users\Admin\Downloads>javac Main.java

C:\Users\Admin\Downloads>java Main Enter father's age:

Enter son's age:

Father's age set to: 35 Son's age set to: 12

C:\Users\Admin\Downloads>javac Main.java

C:\Users\Admin\Downloads>java Main Enter father's age:

₀23

Enter son's age:

Father's age set to: 23

Caught exception: Son's age cannot be greater than or equal to father

C:\Users\Admin\Downloads>javac Main.java

DC:\Users\Admin\Downloads>java Main

Enter father's age: IJ-3

Enter son's age:

IMIFICATION - I ART

3 KB

Caught exception: Father's age cannot be negative

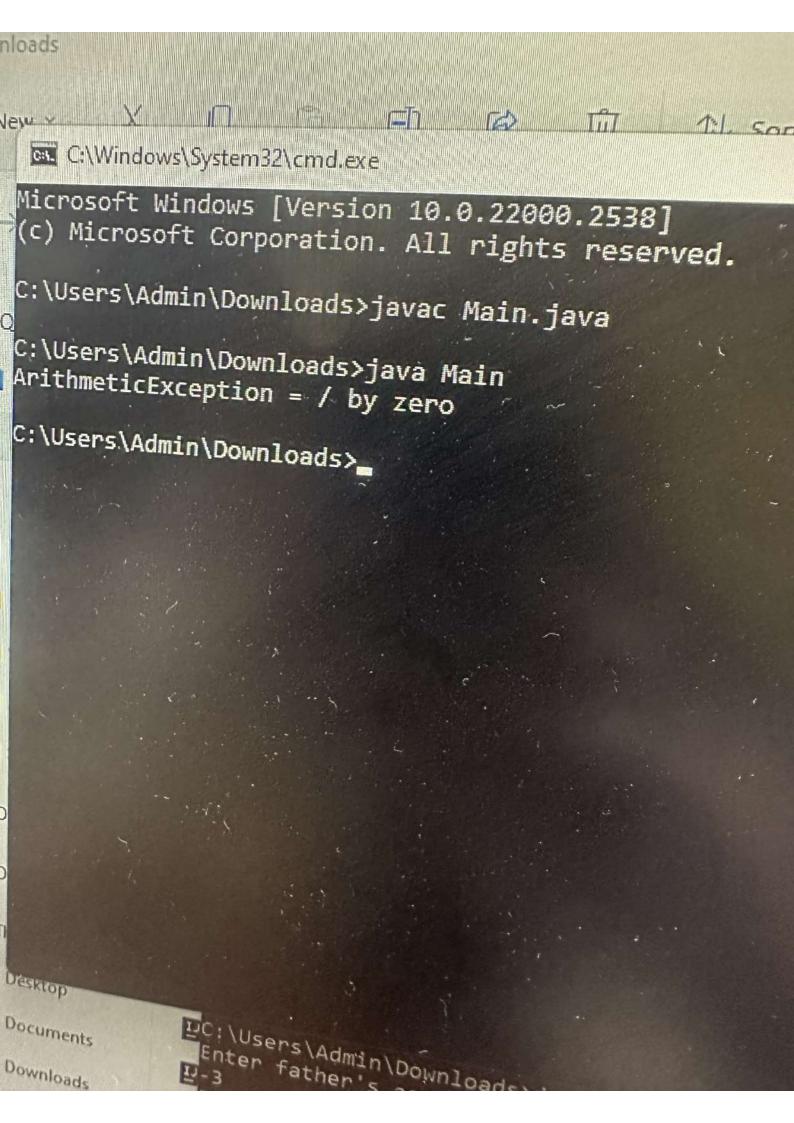
C:\Users\Admin\Downloads>

WrongAge.class			
Father.class	11/26/2024 10:41 AM	CLASS File	
Son.class	11/26/2024 10:41 AM	CLASS File	1 KB
Last week (7)	11/26/2024 10:41 AM	CLASS File	1 KB
lab 2			1 KB
lab 3	11/22/2024 6:50 AM	Microsoft Edge P	
Lab 5	11/22/2024 6:54 AM	Microsoft Edge P	788 KB
lab_6_Parallel_Cellular_Algorithm	11/21/2024 3:20 PM	Microsoft Edge P	7,099 KB
lab_6_Parallel_Cellular_Algorithm	11/22/2024 9:04 AM	Microsoft Word D	198 KB
lab1	11/22/2024 9:05 AM	Microsoft Edge P	53 KB
I INIFICATION - LART	11/22/2024 11:12 AM	Microsoft Edge D	51 KB

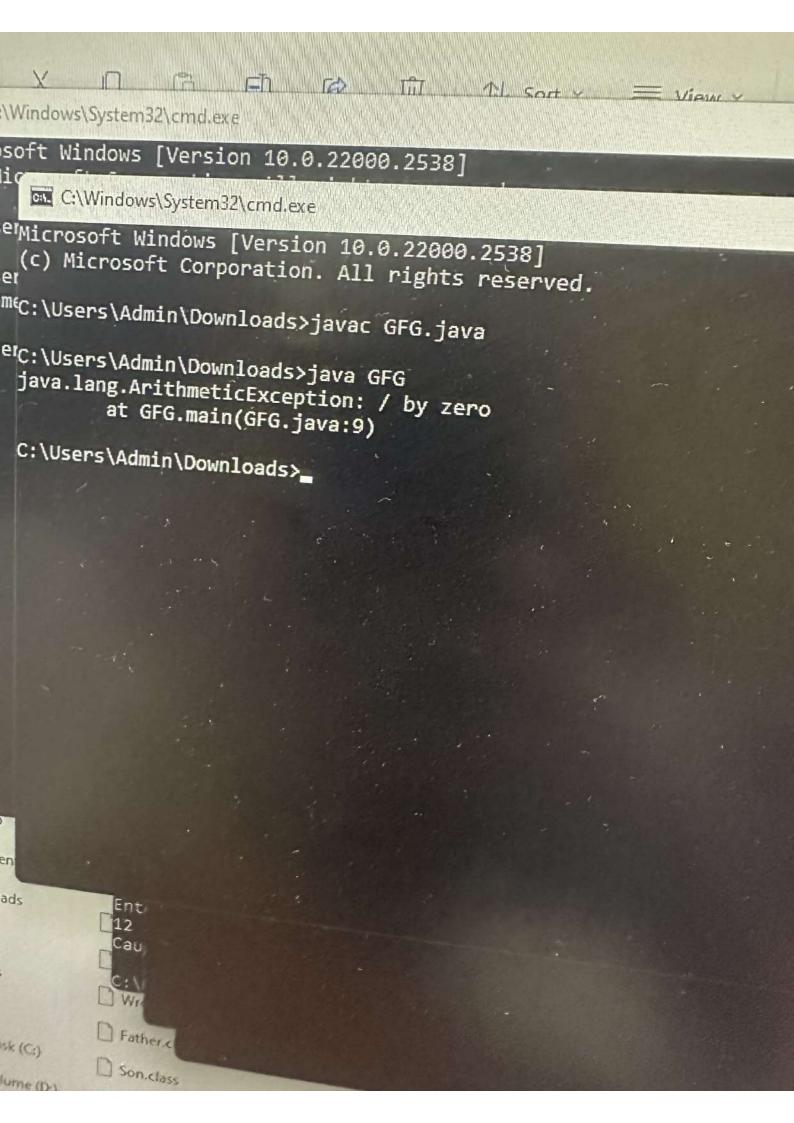
11/22/2024 11:02 AM

Microsoft Edge P...

1,694 KB



[ACL 31011 10:0:550000:5330] oration. All rights reserved. nloads>javac Main.java mloads>java Main on = / by zero ın. C:\Windows\System32\cmd.exe Microsoft Windows [Version 10.0.22000.2538] (c) Microsoft Corporation. All rights reserved. C:\Users\Admin\Downloads>javac CheckedExceptionDemo.java C:\Users\Admin\Downloads>java CheckedExceptionDemo File:test.txtis missing, please check the file name C:\Users\Admin\Downloads> Enti Ent 12 Cau 0:11 Father.c Son.class Last week (7) 11/26/2024 10:41 AM lab 2 CLASS File lab 3 1 KB 11/22/2024 6:50 AM Lab 5 Micro



invallauserInputException is public, should be de outException extends RuntimeException {

emo.java:30: error: class InvalidUserInputExceptionDemoo is public, should l

C:\Windows\System32\cmd.exe

Microsoft Windows [Version 10.0.22000.2538]

(c) Microsoft Corporation. All rights reserved.

C:\Users\Admin\Downloads>javac InvalidUserInputExceptionDemoo.java

C:\Users\Admin\Downloads>java InvalidUserInputExceptionDemoo Type an integer on the console You typed: 12

C:\Users\Admin\Downloads>javac InvalidUserInputExceptionDemoo.java

C:\Users\Admin\Downloads>java InvalidUserInputExceptionDemoo Type an integer on the console

Wrapping exception and throwing

Exception is of type: InvalidUserInputException: Invalid integer value entered Original caught exception is of type: java.util.InputMismatchException

C:\Users\Admin\Downloads>