

Command Prompt

Microsoft Windows [Version 10.0.19042.630]
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C:\Users\eshan>d:

D:\>cd java

D:\java>java Main3.java

Error: Could not find or load main class Main3.java

D:\java>java Main3

Enter father's age:

-5

Enter son's age:

10

Wrong Age!! Father's age is less than 0

Wrong Age!! Son's age is more than father's age

D:\java>


```
import java.util.Scanner;
class fatherAgeException extends Exception
{
    public String toString()
    {
        return("Wrong Age!! Father's age is less than 0");
    }
}

class sonAgeException extends Exception
{
    int a, b;
    sonAgeException (int sage, int fage)
    {
        a = sage;
        b = fage;
    }
    public String toString()
    {
        if(a==b)
            return("Wrong Age!! Son's age is equal to father's age");
        /*
        if(a<0)
            return("Wrong Age!! Son's age is less than 0");
        */
        else
            return("Wrong Age!! Son's age is more than father's age");
    }
}

class Father
{
    public int age1;
    Scanner scan = new Scanner(System.in);
    int age1;
    Father()
    {
        System.out.print("Enter father's age: ");
        age1 = scan.nextInt();
    }
    void ex1() throws fatherAgeException
    {
        if (age1 < 0)
            throw new fatherAgeException();
    }
}
```



```
void ex1() throws fatherAgeException
{
    if (age1 < 0)
        throw new fatherAgeException();
}

class Son extends Father
{
    public int age2;
    Son()
    {
        System.out.print("Enter son's age: ");
        age2 = scan.nextInt();
    }
    void ex2() throws sonAgeException
    {
        if(age2 < 0 || age2>=age1)
            throw new sonAgeException (age2, age1);
    }
}

class Main3
{
    public static void main(String [] args){
        Son s = new Son();{
        try{
            s.ex1();
        }
        catch(fatherAgeException e)
        {
            System.out.println(e);
        }
        try
        {
            s.ex2();
        }
        catch (sonAgeException e)
        {
            System.out.println(e);
        }
        }
    }
}
```