

```

import java.lang.*;
import java.util.*;
class ExceptionDemo{
    public static void main(String args[]){
        //Father r=new Father();
        Son t=new Son();
        try{
            //r.getf();
            t.getf();
            System.out.println("Fathers Age :" +t.f+ "\nSon's Age :" +t.s);
        }
        catch(Exception e){
            System.out.println("Enter valid age");
        }
    }
}

class Age extends Exception{
    Age(){
        System.out.println("Age cannot be negative");
    }
    Age(int f,int s){
        System.out.println("Son's age cannot be greater than or equal to Fathers age");
    }
}

class Father {
    public int f;
    void getf()throws Age{
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter Father's age");
        f=sc.nextInt();
        if(f<0){
            throw new Age();
        }
    }
}

class Son extends Father{
    public int s;
    void getf()throws Age{
        super.getf();
        System.out.println("Enter Son's age");
        s=sc.nextInt();
        if(s>=f){
            throw new Age();
        }
    }
}

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        System.out.println("Fathers Age :" + t.f + "\nSon's Age :" + t.s);
    }
    catch(Exception e){
        System.out.println("Enter valid age");
    }
}

class Age extends Exception{
    Age(){
        System.out.println("Age cannot be negative");
    }
    Age(int f,int s){
        System.out.println("Son's age cannot be greater than or equal to Fathers age");
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}

class Father {
    public int f;
    void getf()throws Age{
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter Father's age");
        f=sc.nextInt();
        if(f<0){
            throw new Age();
        }
    }
}

class Son extends Father{
    public int s;
    void getf()throws Age{
        super.getf();
        Scanner sc=new Scanner(System.in);
        System.out.println("Enter Son's age");
        s=sc.nextInt();
        if(s>=f){
            throw new Age(f,s);
        }
    }
}

```

Enter Father's age

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Age cannot be negative

Enter valid age

Enter Father's age

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Enter Son's age

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Son's age cannot be greater than or equal to Fathers age

Enter valid age