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classmate

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Lab-8

```
import java.util.Scanner;
```

```
class WrongAge extends Exception {  
    public WrongAge(String message) {  
        super(message);  
    }  
}
```

```
extends InputScanner  
class Father {  
    private int fatherAge;
```

```
public Father() throws WrongAge {  
    super();
```

```
    Scanner s = new Scanner(System.in);  
    System.out.print("Enter father's age:");  
    fatherAge = s.nextInt();  
    super.s.close();  
    if (fatherAge < 0)  
        throw new WrongAge("Age cannot  
        be negative");  
}
```

```
public void display() {
```

```
    System.out.println("Father's age:" +  
        fatherAge);  
}
```

```
class Son extends Father {  
    private int sonAge;
```

```
public Son() throws WrongAge {  
    super();
```

super.s

~~Scanner s = new Scanner (System.in);~~~~System.out.print ("Enter son's age : ");~~~~sonAge = super.s.nextInt();~~~~super.s.close();~~

if (sonAge >= super.fatherAge)

throw new WrongAge ("Son's age
cannot be greater than father's
age.");

else if (sonAge < 0)

throw new WrongAge ("Age cannot
be negative);

public void display () {

super.display();

System.out.println ("Son's age : " +
sonAge);

public class Main {

public static void main (String [] args)

try {

Son son = new Son();

son.display();

} catch (WrongAge e) {

System.out.println ("Exception : " +
e.getMessage());

{

{

class InputScanner {
Scanner s;

InputScanner() {

}

}

Output:

(Case 1) Enter son's age. father's age: -10

Exception: Age cannot be negative.

(Case 2) Enter father's age: 40

Enter son's age: 50

Exception: Son's age cannot be greater than father's age

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