

Lab 8. java

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IBM19CS200

```
import java.util.*;
class WrongAge extends Exception
{
    private int a1, b1;
    WrongAge (int a, int b)
    {
        a1 = a;
        b1 = b;
    }
    public String toString()
    {
        if (a1 < 0 || b1 < 0)
            return "input age cannot be less than 0";
        else if (a1 <= b1)
            return "father age cannot be less than  
or equal to son age";
        return " ";
    }
}

class Father
{
    int fage, sage;
    Scanner sc = new Scanner(System.in);
    Father() throws WrongAge
    {
        System.out.println("Enter the age of father");
        fage = sc.nextInt();
        System.out.println("Enter the age of son");
        sage = sc.nextInt();
        if (fage < 0 || sage < 0)
            throw new WrongAge (fage, sage);
    }
}
```

```
class Son extends Father
```

```
{  
    son() throws WrongAge
```

```
{  
    if (sage >= fage)
```

```
        throw new WrongAge(fage, sage);
```

```
    else
```

```
        System.out.println("Proper age have been  
        entered");
```

```
    }
```

```
}
```

```
class Main2
```

```
{
```

```
    public static void main (String args[])
```

```
{
```

```
        try
```

```
{
```

```
            Son s = new Son();
```

```
        }
```

```
        catch (WrongAge e)
```

```
{
```

```
            System.out.println("error: " + e);
```

```
        }
```

```
    }
```

```
}
```