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COMPASS
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LAB-8

WAP that demonstrates handling of exceptions in inheritance. Create a base class called "Father" and derived class called "Son" which extends the base class. In Father class implement a constructor which takes the age and throws the exception WrongAge() when the input age < 0 . In Son class implement a constructor that takes both father and son's age and throws an exception if son's age is \geq father's age.

```
import java.util.Scanner;  
class WrongAge extends Exception  
{
```

```
    public WrongAge(String s)  
    {
```

```
        super(s);  
    }
```

```
}
```

```
class Father
```

```
{
```

```
    int fatherAge;
```

```
    int sonAge;
```

```
    Father(int fAge, int sAge) throws WrongAge  
    {
```

```
        if (fAge < 0)  
        {
```

```
            throw new WrongAge("Father's age is less than zero");  
        }
```

```
}
```



```

else
{
    fatherAge = fAge;
}
}
}

class Son extends Father
{
    int sonAge;

    Son (int fAge, int sAge) throws WrongAge
    {
        super(fAge);
        sonAge = sAge;

        if (sAge >= fAge)
        {
            throw new WrongAge("Son's age is equal to or
            greater than father's age");
        }
    }

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

public class exp
{
    public static void main (String args[])
    {
        int fAge, sAge;
        Scanner sc = new Scanner(System.in);
        System.out.println("Enter father's age : ");
    }
}

```

```
fAge = sc.nextInt();
System.out.println("Enter son's age");
sAge = sc.nextInt();
```

```
try
{
```

```
    Son son = new Son(fAge, sAge);
```

```
    son.
```

```
        son.display();
```

```
}
```

```
catch (WrongAge err)
```

```
{
```

```
    System.out.println("Exception " + err);
```

```
}
```

```
}
```

```
}
```