

```
import java.util.Scanner;  
  
class WrongAge extends RuntimeException {  
    public WrongAge() {  
        super ("Age cannot be negative");  
    }  
}
```

```
    public WrongAge (String message) {  
        super (message);  
    }  
}
```

```
class InputScanner {  
    protected Scanner scanner;  
  
    public InputScanner () {  
        scanner = new Scanner (System.in);  
    }  
}
```

```
    public int nextInt () {  
        return scanner.nextInt();  
    }  
}
```

```
class Father extends InputScanner {  
    protected int FatherAge;
```

```
    public Father () {
```

```
        System.out.println ("Enter father's age : ");  
        FatherAge = super.nextInt();  
    }
```

```
if (fatherAge < 0) {  
    throw new WrongAge ("Age cannot be neg");  
}
```

```
}
```

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

```
    public Son () {
```

```
        super ();
```

```
        System.out.println ("Enter Son's age : ");
```

```
        sonAge = super.nextInt ();
```

```
        if (sonAge > fatherAge) {
```

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

```
        }
```

```
        else if (sonAge < 0) {
```

```
            throw new WrongAge ("Age cannot be negat
```

```
        }
```

```
}
```

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

```
        super.display ();
```

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

```
    }
```

```
}
```



```

public class InheritanceException {
    public static void main (String [] args) {
        try {
            Son son = new Son();
            son.display();
        }
        catch (WrongAge e) {
            System.out.println ("Exception: " + e.getMessage());
        }
    }
}

```

> Output:

Enter Father's Age: 50  
 Enter Son's Age: 45

Father's Age: 50  
 Son's Age: 45

Enter Father's Age: -45

Exception: Age cannot be negative

Enter Father's Age: 50  
 Enter Son's Age: 55

Exception: Son's Age  
 cannot be greater than  
 Father's Age.