

30/04/22

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

```
{
    public WrongAge (String c)
```

```
{
    super(c);
}
```

```
}
class Father {
```

```
    private int age;
```

```
    public Father (int age) throws WrongAge {
```

```
        if (age < 0) {
```

```
            throw new WrongAge ("Age cannot be negative");
        }
```

```
        this.age = age;
    }
```

```
    public int getAge ()
```

```
    {
        return age;
    }
```

```
}
class Son extends Father {
```

```
    private int sonAge;
```

```
    public Son (int fatherAge, int sonAge)
```

```
    throws WrongAge
```

```
    {
        super (fatherAge);
```

```
        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 negative");
        this.sonAge = sonAge;
    }
```



```

public int getDonAge()
{
    return donAge;
}
}

```

```

public class ExceptionDemo {
    public static void main (String args[])
    {

```

```

        Scanner s = new Scanner(System.in);
        try {
            System.out.println("Enter father's age");
            int fatherAge = s.nextInt();
            System.out.println("Enter don's age");
            int donAge = s.nextInt();
            Son son = new Son(fatherAge, donAge);
            System.out.println("Father's age: " + son.getFatherAge());
            System.out.println("Don's age: " + son.getDonAge());
        }
    }
}

```

```

        catch (NumberFormatException e) {
            System.out.println("Error: " + e.getMessage());
        }
    }
}

```

Output
Enter father age
-12

Enter don age
10

Error: Age cannot be negative

Enter father age
20

Enter don age
30

Error: Don's age cannot be greater than father's

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