

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

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

```
class Father
```

```
{  
    int fatherAge;
```

```
    Father() throws WrongAge  
    {
```

```
        Scanner s = new Scanner(System.in);
```

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

```
        fatherAge = s.nextInt();
```

```
        if (fatherAge < 0)
```

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

```
    }
```

```
    void display()
```

```
    {
```

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

```
}
```

```
class Son extends Father
```

```
{
```

```
    int sonAge;
```

```
    Son() throws WrongAge
```

```
    {
```

```
        super();
```

```
        Scanner s = new Scanner(System.in);
```

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

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

```
}  
void display()
```

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

```
    System.out.println("son's age is " + sonAge);  
}
```

```
}  
class Main
```

```
{
```

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

```
{
```

```
    try
```

```
{
```

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

```
        s.display();
```

```
    } catch (WrongAge e)
```

```
{
```

```
        System.out.println(e.getMessage());
```

```
}
```

```
}
```

```
}
```

o/p :

Enter Father's age :

40

Enter Son's age :

20

Father's age is : 40

Son's age is : 20

Enter Father's age :

20

Enter Son's age :

40

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

Enter Father's age :

-23

Age cannot be negative

Enter Father's age :

40

Enter Son's age :

-34

Age cannot be negative

 30.01.21

```
C:\Users\DELL\OneDrive\Desktop\java lab programs>java Main
Enter Father's age:
40
Enter Son's age:
20
Father's age is: 40
Son's age is: 20
```

```
C:\Users\DELL\OneDrive\Desktop\java lab programs>java Main
Enter Father's age:
20
Enter Son's age:
40
Son's age cannot be greater than father's age
```

```
C:\Users\DELL\OneDrive\Desktop\java lab programs>java Main
Enter Father's age:
-23
Age cannot be negative
```

```
C:\Users\DELL\OneDrive\Desktop\java lab programs>java Main
Enter Father's age:
40
Enter Son's age:
-34
Age cannot be negative
```