

## Lab program 7

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

```
    public WrongAge()
    {
```

```
        super("Age error");
    }
```

```
    public WrongAge(String message)
    {
```

```
        super(message);
    }
```

```
class InputScanner
{
```

```
    public Scanner S;
```

```
    public InputScanner()
    {
```

```
        S = new Scanner(System.in);
    }
```

```
class Father extends InputScanner
{
```

```
    public int fatherAge;
```

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

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

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

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

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

```

        negative");
    }
}

public void display()
{
    System.out.println("Father's Age: "
        + fatherage);
}
}

class Son extends Father
{
    private int sonage;
    public Son() throws WrongAge
    {
        System.out.println("Enter Son's Age:");
        sonage = s.nextInt();
        if (sonage > fatherage)
        {
            System.out.println("Son's age cannot be
                greater than father's age");
        }
        else if (sonage < 0)
        {
            throw new WrongAge("Age cannot be
                negative");
        }
    }

    public void display()
    {
        System.out.println("Son's Age: " + sonage);
    }
}

```

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

### Output

Enter Father's Age : 23

Enter son's Age : 45

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

Son's Age : 45

*JS*  
30.01.24