

Lab 8:

```
import java.util.Scanner;
```

```
class WrongAge extends Exception
```

```
{
```

```
    int age
```

```
    WrongAge (int x)
```

```
    {
```

```
        age = x;
```

```
    }
```

```
    public String toString()
```

```
    {
```

```
        return "Age of son = " + age + " is incorrect";
```

```
    }
```

```
}
```

```
class Father
```

```
{
```

```
    int a;
```

```
    Father (int x)
```

```
    {
```

```
        a = x;
```

```
    }
```

```
}  
class Son extends Father
```

```
{
```

```
    int age;
```

```
    son ( int fage, int sage)
```

```
    {
```

```
        super (fage);
```

```
        age = sage;
```

```
    }
```

```
}
```

```
void compute () throws WrongAge
```

```
{
```

```
    if (age >= a)
```

```
    {
```

```
        throw new WrongAge (age);
```

```
    }
```

```
else
```

```
{
```

```
    System.out.println ("The Ages are entered correctly");
```

```

        System.out.println("Father Age =" + a + " | " + "Son's Age ="
                               + age);
    }
}
}

```

```

class expmain
{

```

```

    public static void main (String args[])
    {

```

```

        Scanner s = new Scanner(System.in);

```

```

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

```

```

        int f = s.nextInt();

```

```

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

```

```

        int so = s.nextInt();

```

```

        son ss = new son(f, so);

```

```

        try
        {

```

```

            ss.compute();
        }
    }
}

```

```
catch (WrongAge e)
```

```
{
```

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

```
}
```

```
}
```

```
}
```