

Father son question:

```
import java.util.Scanner;
class fatherAgeException extends Exception
{
    public String toString(){
        return("Father's age is less than 0");
    }
}

class sonAgeException extends Exception{
    int a;
    sonAgeException(int age){
        a=age;
    }
    public String toString(){
        if(a<0)
            return("Son's age is less than 0");
        else
            return("Son's age is more than father's age");
    }
}

class Father{
    int age;
    Scanner in=new Scanner(System.in);
    Father(){
        System.out.println("Enter the father's age: ");
        age=in.nextInt();
    }
    void ex1() throws fatherAgeException
    {
        if(age<0)
            throw new fatherAgeException();
    }
}

class Son extends Father{
```

```

    int age;
    Son(){
        System.out.println("Enter the age of son: ");
        age=in.nextInt();
    }
    void ex2() throws sonAgeException{
        if(age<0||age>super.age){
            throw new sonAgeException(age);
        }
    }
}

```

```

class except {
    public static void main(String[] args){
        Son s=new Son();
        try{
            s.ex1();
        }
        catch(fatherAgeException e){
            System.out.println(e);
        }
        try{
            s.ex2();
        }
        catch(sonAgeException e){
            System.out.println(e);
        }
    }
}

```

```
C:\Users\bmsce\Desktop\1BM21CS061>javac except.java
```

```
C:\Users\bmsce\Desktop\1BM21CS061>java except
```

```
Enter the father's age:
```

```
20
```

```
Enter the age of son:
```

```
22
```

```
Son's age is more than father's age
```

```
C:\Users\bmsce\Desktop\1BM21CS061>java except
```

```
Enter the father's age:
```

```
-10
```

```
Enter the age of son:
```

```
2
```

```
Father's age is less than 0
```

```
Son's age is more than father's age
```

```
C:\Users\bmsce\Desktop\1BM21CS061>java except
```

```
Enter the father's age:
```

```
20
```

```
Enter the age of son:
```

```
-5
```

```
Son's age is less than 0
```

```
C:\Users\bmsce\Desktop\1BM21CS061>java except
```

```
Enter the father's age:
```

```
20
```

```
Enter the age of son:
```

```
2
```