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Lab-7

write a program that demonstrate handling of exceptions in inheritance tree. Create a base class father & drive son. In father class implement a constructor which throws wrongAge when age<0. In son class implement a constructor which throws wrongAge when age > fathers age.

```
import java.util.Scanner;

class WrongAge extends Exception{
    Public WrongAge(String s){
        super(s);
    }
}
class Input{
    Scanner sc = new Scanner(System.in);
}
class Father extends Input{
    int fage;
    Father(){
        fage = sc.nextInt();
        try{
            check();
        }
        catch(WrongAge e){
            System.out.println(e);
        }
    void check() throws WrongAge{
        if(fage<0)
            throw new WrongAge("cannot be negative");
    }
}
```

```
    void display(){
        System.out.println("Father Age:"
    }
}
class Son extends Father
    int sonAge
    Son(){
    Super();
    try{
        check();
    }
    catch (WrongAge e){
        System.out.println(e);
    }
}
void check() throws WrongAge{
    if (sonAge < 0)
    throw new WrongType("cannot be negative");
    else if (sonAge > fatherAge)
    throw new WrongAge("son Age cannot
    be greater than father age");
    else if (sonAge == fage)
    throw new WrongAge("son Age
    cant be eq/to father age");
}
void display(){
    System.out.println(e);
}
}
```

```
class main{
public static void main (String Args[]);
{
    Son S = new Son();
     S.display;
   }
}
```

Output

50
30

Father age : 50
Son age : 30

-12
Age cannot be negative

20
40
Son's age cannot be grater then Fathers Age.