At?

Lab 07

Father - Son Age

```
import java.util.Scanner;
class WrongAge extends Exception {
  WrongAge (String error) {
    System.out.println (error); }
}


class Father {
  int age;
  Father (int age) throws WrongAge {
    if (age < 0)
       throw new WrongAge ("Father's age cannot be
                                    negative.");
       this.age = age; } }


class Son extends Father {
    int age;
    Son (int age, int s_age) throws WrongAge {
    super (age);
      if (s_age >= age)
      throw new WrongAge ("Son's age cannot be
        greater than Father's Age");
        this.age = age; }


class main {
    public static void main (String args[]) {
    Scanner sc = new Scanner (System.in);
      try {
         System.out.println ("enter Father's age");
         int age = sc.nextInt();
         System.out.println ("enter Son's age");
```

```java
int S_age = Sc.nextInt();
Son a = new Son(f_age, s_age);
System.out.println("Father's age:" + f_age);
System.out.print("Son's age:" + S_age);
}
catch(WrongAge e){
System.out.println("wrong age entered");}

catch(Exception ee){
System.out.println("unexpected error:" + ee);}
}
}
```

Output

```
enter the father's age: 53
enter the son's age: 15
Father's age: 53
Son's age: 15


enter Father's age: 15
enter son's age: 23
Son's age: cannot be greater than Father's age
wrong age entered

enter the father's age = -15
enter the son's age: 15
Father's age cannot be negative
wrong age entered
```

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