Week 7: Java Lab

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Code
import java.util.Scanner;
class WrongAge extends Exception {
  public WrongAge(String message) {
    super(message);
 }
}
class Father {
  int age;
  public Father(int age) throws WrongAge {
    if (age < 0) {
      throw new WrongAge("Age Cannot be Negative");
    }
    this.age = age;
    System.out.println("Father's Age: " + this.age);
  }
}
class Son extends Father {
  int sonAge;
  public Son(int fatherAge, int sonAge) throws WrongAge {
    super(fatherAge);
    if (sonAge < o) {
      throw new WrongAge("Son's Age Cannot be Negative");
```

```
}
    if (sonAge >= fatherAge) {
      throw new WrongAge("Son's Age Cannot be Greater than or Equal to Father's
Age");
    }
    this.sonAge = sonAge;
    System.out.println("Son's Age: " + this.sonAge);
 }
}
public class FatherSon {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    System.out.print("Enter Father's Age: ");
    int fatherAge = scanner.nextInt();
    System.out.print("Enter Son's Age: ");
    int sonAge = scanner.nextInt();
    try {
      Son son = new Son(fatherAge, sonAge);
    } catch (WrongAge e){
      System.out.println("Exception: " + e.getMessage());
    }
    scanner.close();
 }
}
```

Output

D:\1BM23CS006>javac FatherSon.java D:\1BM23CS006>java FatherSon Enter Father's Age: -1 Enter Son's Age: 10 Exception: Age Cannot be Negative D:\1BM23CS006>java FatherSon Enter Father's Age: 25 Enter Son's Age: -3 Father's Age: 25 Exception: Son's Age Cannot be Negative D:\1BM23CS006>java FatherSon Enter Father's Age: 25 Enter Son's Age: 30 Father's Age: 25 Exception: Son's Age Cannot be Greater than or Equal to Father's Age D:\1BM23CS006>java FatherSon Enter Father's Age: 29 Enter Son's Age: 9 Father's Age: 29 Son's Age: 9 D:\1BM23CS006>