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LAB-7(EXCEPTION)
SOURCE CODE:
import java.util.Scanner;
class WrongAge extends Exception {
  public WrongAge(String message) {
    super(message);
  }
}
class Father {
  protected int fatherAge;
  public Father(int age) throws WrongAge {
    fatherAge = age;
    if (fatherAge < 0) {
      throw new WrongAge("Father's age cannot be negative");
    }
  }
}
class Son extends Father {
  private int sonAge;
  public Son(int fatherAge, int sonAge) throws WrongAge {
    super(fatherAge);
    this.sonAge = sonAge;
    if (sonAge <= 0) {
      throw new WrongAge("Son's age cannot be negative or zero");
    }
    if (sonAge >= fatherAge) {
      throw new WrongAge("Son's age cannot be greater than or equal to father's age");
    }
  }
}
public class Main {
  public static void main(String[] args) {
    Scanner scanner = new Scanner(System.in);
    try {
```

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System.out.print("Enter father's age: ");
      int fatherAge = scanner.nextInt();
      System.out.print("Enter son's age: ");
      int sonAge = scanner.nextInt();
      Son son = new Son(fatherAge, sonAge);
      System.out.println("Father's age: " + fatherAge);
      System.out.println("Son's age: " + sonAge);
    } catch (WrongAge e) {
      System.out.println("Exception caught: " + e);
      System.out.println("Exception caught: " + e.getMessage());
    } catch (Exception e) {
      System.out.println("Error: " + e);
      System.out.println("Error: " + e.getMessage());
    } finally {
      scanner.close();
    }
  }
OUTPUT:
Enter father's age: 35
Enter son's age: 12
Father's age: 35
Son's age: 12
```

```
Enter father's age: 68
Enter son's age: 78
Exception caught: WrongAge: Son's age cannot be greater than or equal to father's age
Exception caught: Son's age cannot be greater than or equal to father's age
```

```
Enter father's age: -56
Enter son's age: 23
Exception caught: WrongAge: Father's age cannot be negative
Exception caught: Father's age cannot be negative
```

Enter father's age: 56 Enter son's age: -23

Exception caught: WrongAge: Son's age cannot be negative or zero

Exception caught: Son's age cannot be negative or zero