

```
import java.util.Scanner;

class WrongAgeException extends Exception {
    public WrongAgeException(String message) {
        super(message);
    }
}

class InvalidSonAgeException extends Exception {
    public InvalidSonAgeException(String message) {
        super(message);
    }
}

class Father {
    protected int fatherAge;

    public Father(int age) throws WrongAgeException {
        if (age < 0) {
            throw new WrongAgeException("Father's age cannot be negative: " + age);
        }
        this.fatherAge = age;
        System.out.println("Father's age is: " + this.fatherAge);
    }
}

class Son extends Father {
    private int sonAge;

    public Son(int fatherAge, int sonAge) throws WrongAgeException, InvalidSonAgeException {
        super(fatherAge);
        if (sonAge < 0) {
            throw new WrongAgeException("Son's age cannot be negative: " + sonAge);
        }
        if (sonAge >= fatherAge) {
            throw new InvalidSonAgeException("Son's age cannot be greater than or equal to Father's age.");
        }
        this.sonAge = sonAge;
        System.out.println("Son's age is: " + this.sonAge);
    }
}

public class FatherSonAge {
    public static void main(String[] args) {
        try {
```

```
public class FatherSonAge {  
    public static void main(String[] args) {  
        try {  
            Scanner scanner = new Scanner(System.in);  
  
            System.out.print("Enter Father's age: ");  
            int fAge = scanner.nextInt();  
  
            System.out.print("Enter Son's age: ");  
            int sAge = scanner.nextInt();  
  
            Son son1 = new Son(fAge, sAge); |  
  
        } catch (WrongAgeException | InvalidSonAgeException e) {  
            System.out.println("Exception: " + e.getMessage());  
        }  
    }  
}
```

```
PS D:\1BM23CS328\Week 7> javac FatherSonAge.java
PS D:\1BM23CS328\Week 7> java FatherSonAge
Enter Father's age: 25
Enter Son's age: 40
Father's age is: 25
Exception: Son's age cannot be greater than or equal to Father's age.
PS D:\1BM23CS328\Week 7> java FatherSonAge
Enter Father's age: 45
Enter Son's age: 23
Father's age is: 45
Son's age is: 23
PS D:\1BM23CS328\Week 7> java FatherSonAge
Enter Father's age: -5
Enter Son's age: 34
Exception: Father's age cannot be negative: -5
PS D:\1BM23CS328\Week 7> java FatherSonAge
Enter Father's age: 35
Enter Son's age: -2
Father's age is: 35
Exception: Son's age cannot be negative: -2
```