lab 7

```
class WrongAgeException extends Exception {
    public WrongAgeException(String message) {
        super(message);
    }
}
class Father {
    int age;
    public Father(int age) throws WrongAgeException {
        if (age < 0) {
            throw new WrongAgeException("Father's age cannot be negative.");
        this.age = age;
   }
}
class Son extends Father {
    int sonAge;
    public Son(int fatherAge, int sonAge) throws WrongAgeException {
        super(fatherAge);
        if (sonAge >= fatherAge) {
            throw new WrongAgeException("Son's age cannot be greater than or equ
        this.sonAge = sonAge;
    }
}
public class InheritanceExceptionDemo {
    public static void main(String[] args) {
        try {
            Father father = new Father(40);
            Son son = new Son(40, 20);
            System.out.println("Father's age: " + father.age);
            System.out.println("Son's age: " + son.sonAge);
        } catch (WrongAgeException e) {
            System.out.println("Exception: " + e.getMessage());
        }
        try {
```

```
Father father = new Father(-5);
} catch (WrongAgeException e) {
    System.out.println("Exception: " + e.getMessage());
}

try {
    Son son = new Son(30, 30);
} catch (WrongAgeException e) {
    System.out.println("Exception: " + e.getMessage());
}
}
```

▼ Output

```
Father's age: 40
Son's age: 20
Exception: Father's age cannot be negative.
Exception: Son's age cannot be greater than or equal to Father's age.
```

lab 7

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LAB PROGRAM VV
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"Father" and derived class called
"Father" and derived class called "Son" which extend the
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which takes the age and throws reverption wrong Age() when the input age to In son class implement a constructor that uses father and son's age and throws an econstructor
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public Father (int age) throws wrong Age of
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throw new Wrong Age ("Father's age, can't be
negative);
throw new Wrong Age ("Father's age can't be negative"); this. father Age = age;
throw new Wrong Age ("Father's age can't be negative"); this. father Age = age;

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