WEEK - 7.

```
import java.util.*;

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

class InputScanner{
    protected Scanner s;
    public InputScanner(){
        s = new Scanner(System.in);
    }
}

class Father extends InputScanner{
    protected int fatherAge;
    public Father() throws WrongAge{
        System.out.println("Enter Father's age : ");
        fatherAge = s.nextInt();
        if(father < 0){
            throw new WrongAge("Age can't be negative");
        }
    }
    public void display(){
        System.out.println("Father's Age : " + fatherAge);
    }
}
```

```
class Son extends Father {
    private int sonAge;
    public Son() throws WrongAge {
        super();
        System.out.println("Enter Son's age : ");
        sonAge = s.nextInt();
        if (sonAge > fatherAge) {
            throw new exception("Son's age cannot
            be greater than father's age");
        else if (sonAge < 0) {
            throw new Exception ("Age can't be negative.");
        }
    }
    public void display() {
        super.display();
        System.out.println("Son's age : " + sonAge);
    }
}

Public class FatherSonAge {
    Public static void main(String [] Args ]{
        try {
            Son son = new Son();
            son.display();
        } catch (WrongAge e) {
            System.out.println("Error : " + e.getMessage());
        }
    }
}
```

O/P:

* Enter ~~Son~~ Father's age: 40
Enter Son's age: 20
Father's age: 40
Son's age: 20

* Enter Father's age: 10
Enter Son's age: 20
Error, Son's age cannot be greater than father's age.

* Enter father's age: -10
Error: age cannot be negative

30/01/24