30/01/24 URBAN EDGE

```
import java.util.Scanner;
class WrongAge extends Exception{
    public WrongAge(String message){
        super(message);
    }
}
class Father{
    private int age;
    public Father(int age) throws WrongAge{
        if(age<0){
            throw new WrongAge("age can't be negetive");
        }
        this.age = age;
    }
    public int getAge(){
        return age;
    }
}
class Son extends Father{
    private int sonAge;
    public Son(int fatherAge, int sonAge) throws
        WrongAge{
        super(fatherAge);
        if(sonAge >= fatherAge){
            throw new WrongAge("Son's age can't
                be greater than father's age");
        }
        else if(sonAge<0){
            throw new WrongAge("age can't be
                negetive");
        }
        this.sonAge = sonAge;
    }
```

```
    public int getSonAge(){
        return sonAge;
    }
}
public class Main{
    public static void main(String[] args){
        Scanner scanner = new Scanner(System.in);
        try{
            System.out.println("enter the father's age:\n");
            int fatherAge = scanner.nextInt();
            System.out.println("enter the son's age:\n");
            int sonAge = scanner.nextInt();
            Son son = new Son(fatherAge, sonAge);
            System.out.println("Father's Age: " + son.getAge());
            System.out.println("Son's Age: " + son.getSonAge());
        } catch(WrongAge e){
            System.out.println("Exception: " + e.getMessage());
        } finally{
            scanner.close();
        }
    }
}
```

output:-

1) enter father's age:
   -5
   enter the son's age:
   10
   exception: age can't be negative

2) enter father's age:
   5

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enter son's age:
7
exception: Son's age can't be greater than father's age.

enter father's age:
19
enter son's age:
-5
exception: age can't be negative.

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