

20/11/24

LAB-7

```
import java.util.Scanner;  
class WrongAgeException extends Exception {  
    public WrongAgeException extends Exception {  
        public WrongAgeException (String message) {  
            super(message);  
        }  
    }  
}
```

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

```
class Father {  
    private int age;  
    public Father (int age) throws WrongAgeException {  
        if (age < 0) {  
            throw new WrongAgeException ("Wrong age");  
        }  
        this.age = age;  
    }  
}
```



```

    public int getAge() {
        return age;
    }
}

```

```

class Son extends Father {
    private int sonAge;
    public Son(int fatherAge, int sonAge)
        throws WrongAgeException, SonAgeException {
        super(fatherAge);
        if (sonAge >= fatherAge) {
            throw new SonAgeException ("
            Error!: Son's age should be less
            than Father's age");
        }
        this.sonAge = sonAge;
    }
    public int getSonAge() {
        return sonAge;
    }
}

```



```
public class Age {  
    public static void main (String[] args) {  
        while (true) {  
            Scanner sc = new Scanner (System.in);  
            System.out.println ("Enter Father's age: ");  
            int fatherAge = sc.nextInt();  
            System.out.print ("Enter Son's age: ");  
            int sonAge = sc.nextInt();  
            try {  
                Son son = new Son (fatherAge, sonAge);  
                System.out.println ("Father and son age  
                accepted");  
            }  
            catch (WrongAgeException e) {  
                System.out.println (e.getMessage());  
            }  
            catch (SonAgeException e) {  
                System.out.println (e.getMessage());  
            }  
            System.out.println ("Would you like to  
            re-enter details (Y/N)");  
            String input = sc.next();  
            if (input.equalsIgnoreCase ("n")) {  
                break;  
            }  
        }  
    }  
}
```


a/p: Entu Fatma's age: 45

Entu Son's age: 45

Error!: Son's age should be less than
Fatma's age

Would you like to re-enter details (y/n)

Seen

Y
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