

```
import java.util.Scanner;

class WrongAge extends Exception{

    int a;

    WrongAge(int a)

    {

        this.a=a;

    }

    public String toString(){

        return a+" is a invalid Age";

    }

}
```

```
class SonAgeExceedsFatherAge extends Exception{

    int fa,a;

    SonAgeExceedsFatherAge(int fa,int a)

    {

        this.fa=fa;

        this.a=a;

    }

}
```

```
public String toString(){

    return "father's("+fa+") age cannot be lesser than that of son("+a+")";

}

}
```

```
class Father {
```

```
int fage;

Father(int a) {
    fage=a;
}

public void fathervalidage() throws WrongAge{
    if(fage<0){
        throw new WrongAge(fage);}
    }
}

class Son extends Father{
    int age;
    Son(int fa,int a)
    {
        super(fa);
        age=a;}
    public void sonvalidage() throws SonAgeExceedsFatherAge{
        if(fage<age){
            throw new SonAgeExceedsFatherAge(fage,age);
        }
    }
    void display()
    {
        System.out.println("Father's age:"+fage+"\nSon's age:"+age);
    }
}
```

```
class FatherSon{
    public static void main(String args[]){
        Scanner sc=new Scanner(System.in);
        System.out.println("Suhas \n1BM23CS345");
        System.out.println("Enter Father's age:");
        int fage=sc.nextInt();
        System.out.println("Enter Son's age:");
        int age=sc.nextInt();
        Son child=new Son(fage,age);
        try{
            child.fathervalidage();
            child.sonvalidage();
            System.out.println("Ages are valid");
            child.display();
        }
        catch(WrongAge e){
            System.out.println(e);
        }
        catch(SonAgeExceedsFatherAge e){
            System.out.println(e);
        }
    }
}
```

```
PS E:\New folder> java FatherSon
Suhas
1BM23CS345
Enter Father's age:
-2
Enter Son's age:
4
-2 is a invalid Age
PS E:\New folder> java FatherSon
Suhas
1BM23CS345
Enter Father's age:
34
Enter Son's age:
45
father's(34) age cannot be lesser than that of son(45)
PS E:\New folder> java FatherSon
Suhas
1BM23CS345
Enter Father's age:
45
Enter Son's age:
32
Ages are valid
Father's age:45
Son's age:32
PS E:\New folder>
```