7. Write a program thod demonstres ha
-ndling of exceptions in inheritence
tree. Create a base class called "Father"
and derived class called "son" which
extends the base class. in Father class
implement a constructor which takes
the age and throws the exception
wrongAge() when the input age<0. in
son class, implement a constructor thod
uses both father and son's age thro
-ws an exception if son's age is>= fathers
age.

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

class InvalidAgeRelationshipException extends
exception {
    public InvalidAge RelationRhip Exception (String
    message)
    {
        super(message);
    }
}

class Father {
    protected int age;
    public Father(int age) throws WrongA
    -ge Exception {
        if (age<0)
        {
            throw new WrongAge Exception ("Father's ag.
            cannot be negative!");
        }
    }
```

```java
        this.age = age;
        System.out.print ("Father Created with age"
                + this.age);
    }
}

class Son extends Father
{
    private int sonAge;
    public Son (int fatherAge, int sonAge) throws
        WrongAgeException, InvalidAgeRelationship
        Exception
    {
        super (fatherAge);
        if (sonAge < 0)
        {
            throw new WrongAgeException ("son's age
            cannot be, negative!");
        }
        if (sonAge >= fatherAge)
        {
            throw new InvalidAgeRelationshipException
            ("son's age cannot be greater than
            or equal to Father's age!");
        }
        this.sonAge = sonAge;
        System.out.println ("son created with age"
            + this.sonAge);
    }
}
```

```java
class ExceptionDemo
{
    public static void main(String args [])
    {
        try
        {
            Father father = new Father (40);
            Son     son   = new Son (40,20);
        }
        catch (WrongAgeException | InvalidRelationshi
        - Exception e)
        {
            System.out.Println ("Exception!" + e.getmessage
        }
    }
}
```

O/P
Enter Father's age:16
Enter Son's age:18
Error!: Son's age >= Father's age
Enter Father's age!24
Enter Son's age:29
Enter Son's Age: 18
B Father's age: 29
Son's age: 18