

## Lab Prgm - 8

Q) Father Son

```

Ans: import java.util.*;
class WrongAge extends Exception
{
    int f, s;
    WrongAge (int fage, int sage)
    {
        f = fage;
        s = sage;
    }

    public String toString()
    {
        return "Father's age can't be less than son's age";
    }
}

class NegativeAge extends Exception
{
    int x;
    NegativeAge (int fage)
    {
        x = fage;
    }

    public String toString()
    {
        return "Age can't be negative";
    }
}

class Father
{
    int fage;
    Scanner in = new Scanner (System.in);
    Father () throws NegativeAge
    {
        System.out.println ("Enter Father's age: ");
        fage = in.nextInt ();
        if (fage < 0)
        {
            throw new NegativeAge (fage);
        }
    }
}
    
```

```

class Son extends Father
{
    int sage;
    Scanner in = new Scanner(System.in);
    Son() throws NegativeAge, WrongAge {
        super();
        System.out.println("Enter Son's age");
        sage = in.nextInt();
        if (sage < 0)
        {
            throw new WrongAge(-sage);
        }
        if (sage >= fage)
        {
            throw new WrongAge(fage, sage);
        }
    }
}

```

```

class fatson
{
    public static void main (String args[])
    {
        try {
            Son s = new Son();
        }
        catch (NegativeAge n)
        {
            System.out.println("Exception" + n);
        }
        catch (WrongAge w)
        {
            System.out.println("Exception" + w);
        }
    }
}

```

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