

Ques 8.

```
import java.util.Scanner;
```

```
class FatherAge extends Exception {  
    public String toString()  
    {  
        return "Father's age is less than 0";  
    }  
}
```

```
class SonAge extends Exception {
```

```
    int a;
```

```
    SonAge(int age)  
    {
```

```
        a = age;
```

```
    }
```

```
    public String toString()  
    {
```

```
        if (a < 0)
```

```
            return "Son's age is less than 0";
```

```
        else
```

```
            return ("Son's age is more than  
father's age");
```

```
    }  
}
```

```

class father {
    public int age1;
    Scanner ss = new Scanner(System.in);
    father()
    {
        SOP("Enter father's age:");
        age1 = ss.nextInt();
    }

    void exception1() throws fatherAge
    {
        if (age1 < 0)
            throw new fatherAge();
    }
}

```

```

class son extends father
{
    public int age2;
    son()
    {
        SOP("Enter son's age:");
        age2 = ss.nextInt();
    }

    void exception2() throws sonAge {
        if (age2 < 0 || age2 > super.age1)
            throw new sonAge(age2);
    }
}

```

```
class fatherSon
```

```
{  
    public static void main (String args[])
```

```
    {  
        son s = new son ();
```

```
        try  
        {
```

```
            s.exuption1();
```

```
        }
```

```
        catch (fatherAge e)  
        { SDP (e); }
```

```
        try {
```

```
            s.exuption2(); }
```

```
        catch (sonAge e)
```

```
        { SDP (e); }
```

```
        }
```

```
    }
```