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LAB PROGRAM 8

```
import java.util.Scanner;
class WrongAge extends Exception {
    int fatherAge;
WrongAge (int fAge)
{
    this.fatherAge = fAge;
}
public String toString()
    {
        return ("\n ERROR : Father's age can't be negative!");
    }
}
class SonException extends Exception
  {
     int f, s;
     SonException(int fAge, int sAge)
    {
       this.f = fAge;
       this.s = sAge;
     }
  public String toString()
     {
        if (f==s)
        return ("\n ERROR : Son's age can't be equal to
     father's age!");
        if(s<0)
        return ("\n ERROR : Son's age can't be lesser
than zero!");
        else
        return ("\n ERROR : Son's age can't be
greater than father's age!");
     }
  }
```

```
class Father
{
    int fAge;
    Scanner sc = new Scanner(System.in);
    Father()
    {
        System.out.println("Enter the father's age :\n");
        fAge = sc.nextInt();
    }
    void exception1() throws WrongAge
    {
        if(fAge < 0)
        throw new WrongAge(fAge);
    }
}
class Son extends Father
{
    int sAge;
    Scanner sc = new Scanner(System.in);
    Son()
    {
        super();
        System.out.println("Enter the son's age:\n");
        sAge = sc.nextInt();
    }
void exception2() throws SonException
    {
        if(sAge < 0 || sAge >= fAge)
        throw new SonException(fAge, sAge);
    }
}
class except
{
    public static void main(String args[])
```

```
{
    Son s : new Son();
    try {
        s.exception1();
    }
catch (WrongAge e)
    {
        System.out.println("Exception caught"+e);
    }
try {
    s.exception2();
}
catch (SonException e)
    {
        System.out.println("Exception caught" +e);
    }
}
```