LAB 7: WAP to demonstrate the exception handling in inheritance tree.

```
import java.util.*;

class WrongAge extends Exception{
    WrongAge(String s){
        super(s);
    }
}

class InputScanner{
    Scanner s = new Scanner(System.in);
}

class father extends InputScanner{
    int fatherAge;

father() throws WrongAge{
    Sys.out.println("Enter father age:");
    fatherAge = S.nextInt();

    if(fatherAge<0)
        throw new WrongAge("Age cannot be
            negative");
}
void display(){
    System.out.println("Father's age:"+fatherAge);
}
}
```

```
class Son extends Father {
    int SonAge;

Son() throws WrongAge {
    super();
  System.out.println("Enter son's age:");
  SonAge = s.nextInt();

  if (sonAge < 0)
    throw new WrongAge("Age cannot be -ve");

else-if (sonAge > fatherAge)
  throw new WrongAge("Son's age cannot be
    greater than father's age");

else {
    displayF();
    displaySon();

  throws new WrongAge ("Valid Age");
  }
}

void displaySon() {
    System.out.println("Son's age:" + sonAge);
  }
}
```

```
class exceptions main{
    public static void main (String[] args
{
try{
    Son son = new Son();
}
catch(WrongAge e){
    System.err.println(e.getMessage
}
}
}
```

OUTPUT:

Enter father's age:
44
Enter Son's age:
23

Father's age: 43
Son's age: 23
Valid Age

Enter father's age:
-2
Age cannot be negative

Enter father's age:
44
Enter Son's age
66
Son's age cannot be greater than father's age.