

LAB PROGRAM 8

```
import java.util.Scanner;

class WrongAge extends Exception{
    double age;

    WrongAge(double x){
        age = x;
    }

    public String toString(){
        return "Age of son " + age + " is invalid";
    }
}

class Father {
    double fage;
    Father (double father_age){
        fage = father_age;
    }
}

class Son extends Father{
    double sage;

    Son(double fage, double age){
        super(fage);
        sage = age;
    }

    void calculate() throws WrongAge{
        if(sage>=fage){
            throw new WrongAge(sage);
        }
        else{
            System.out.println("The age of Father is: " +fage);
            System.out.println("The age of Son is: " +sage);
        }
    }
}

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

```

Scanner s1 = new Scanner(System.in);
System.out.println("Enter father's age:");
double f = s1.nextDouble();
System.out.println("Enter son's age:");
double s = s1.nextDouble();
Son sa = new Son(f, s);
try{
    sa.calculate();
}
catch(WrongAge e){
    System.out.println("Input invalid "+ e);
}
}
}

```

```

Enter father's age:
50
Enter son's age:
30
The age of Father is: 50.0
The age of Son is: 30.0

...Program finished with exit code 0
Enter father's age:
50
Enter son's age:
60
Input invalidAge of son 60.0 is invalid

...Program finished with exit code 0
Press ENTER to exit console.

```