Lab-7

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ExceptionHandlingDemo.java

```
import java.util.Scanner;

class WrongAge extends Exception {
    public WrongAge() {
        super("Age Error");
    }
}

class InputScanner {
    protected Scanner scanner;
    public InputScanner() {
        scanner = new Scanner(System.in);
    }
    public int nextInt() {
        return scanner.nextInt();
    }
}
class Father extends InputScanner {
    protected int fatherAge;
    public Father() throws WrongAge {
        System.out.println("Enter father's Age :");
        if (fatherAge < 0) {
            throw new WrongAge("Age cannot be negative");
        }
    }
    public void display() {
        System.out.println("Father's age: " + fatherAge);
    }
}
```

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```
class Son extends Father {
    private int sonAge;

    public Son() throws WrongAge {
        super();
        System.out.println("Enter Son's Age: ");
        sonAge = super.nextInt();

        if (sonAge >= fatherAge) {
            throw new WrongAge("Son's age
                cannot be greater than or equal
                to father's age");
        } else if (sonAge < 0) {
            throw new WrongAge("Age cannot be
                negative");
        }
    }
    public void display() {
        super.display();
        System.out.println("Son's age:" +sonAge);
    }
}

public class ExceptionHandlingDemo {
    public static void main(String[] args) {
        try {
            Son son = new Son();
        } catch (WrongAge e) {
            System.out.println("Error:" + e.getMessage());
        }
    }
}
```

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Output

```
Enter father's age :
40
Enter Son's age :
20
Error: Son's age cannot be greater than or
       equal to father's age
```

```
Enter father's age : 20
Enter Son's age : -12
Error : Age cannot be negative
```

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