LAB 7

Exception Handling.

WAP that demonstrates handling of exception in inheritence tree,

```java
import java.util.*;

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

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

class Father extends InputScanner {
    int fatherAge;
    public Father() throws WrongAge {
        InputScanner sf = new InputScanner();
        fatherAge = sf.sc.nextInt();
        if (fatherAge < 0) {
            throw new WrongAge("Age can't be Negative");
        }
    }
    void Fdisplay () {
```

```java
        System.out.println("Father's Age :" + fatherAge);
    }
}

class Son extends Father {
    int sonAge;
    public Son() throws WrongAge {
        InputScanner ss = new InputScanner();
        sonAge = ss.sc.nextInt();
        if (sonAge >= fatherAge) {
            throw new WrongAge("Son's age cannot be
                    greater or equal to father's age");
        }
        else if (sonAge < 0) {
            throw new WrongAge("Age cannot be negative");
        }
    }
    void Sdisplay() {
        System.out.println("Son's Age :" + sonAge);
    }
}

public class AgeCheck {
    public static void main(String args[]) {
        Son a;
        try {
            a = new Son();
            a.Fdisplay();
            a.Sdisplay();
        }
        catch (WrongAge e) {
            System.out.println(e);
        }
        System.out.println("Sanketh M Hanasi 1BM22C
                242
    }
}
```

Ouput :

30

8

Father's Age : 30
Son't Age : 8

10

12

WrongAge : Son's age can't be greater than or equal to
father's age

-1

wrongAge : Age cannot be negative

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