LAB Program - 7
User defined Exception handling

```java
import java.util.*;

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

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

class Father extends InputScanner{
        int fatherAge;
        public father() throws WrongAge{
                InputScanner ss = new InputScanner();
                System.out.println("Enter the father
```

```java
                age : ");
        fatherAge = ss.sc.nextInt();
        if(fatherAge<0){
                throw new wrongAge("Age cannot be
                                    negative");
        }
    }
    void fdisplay(){
        System.out.println("Father age is :"+
                            fatherAge);
    }
}

class son extends father{
        int sonAge;
        public son() extends wrongAge{
                InputScanner ss = new InputScanner();
                System.out.println("Enter son's age");
                sonAge = ss.sc.nextInt();
                if(sonAge > fatherAge){
                        throws new wrongAge(
                        "son's age cannot be
                        greater than father
                        Age");
                }
                elk if(sonAge <0){
                        throw new wrongAge("
                        Age cannot be negative");
                }
        }
        void sdisplay(){
                System.out.println("son's age is "+
                                    sonAge);
        }
}
```

```java
public class Pmain{
    public static void main(String args[]){
        Son P;
        try{
            p = new Son();
            p.fdisplay();
            p.sdisplay();
        }
        catch(wrongAge e){
            System.out.println(e);
        }
        System.out.println("Name : shashidhar B
                            USN : 1BM22CS257
    }
}
```

@output

Output: 1
Enter father Age
96.
Enter son's Age
52
father Age is :96.
Song' Age is 52

Name : shashidhar B M
USN : 1BM22CS257

Output 2:

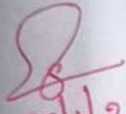Enter father age ;
-25
wrongAge : Age cannot be negative

Output: 3.
Enter the father's Age
>6
Enter the son's age:
>7.
WrongAge; Son's age cannot be greater than father's Age

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Output: 3.
Enter the father's Age
>6
Enter the son's age: