LAB PROGRAM 8

import java.util.Scanner;

class WrongAge extends Exception {

    public WrongAge(String message) {

        super(message);

    }

}

class Father {

    int father\_age;

    public Father(int father\_age) throws WrongAgeException {

        if (father\_age < 0) {

            throw new WrongAge("Father's age cannot be negative.");

        }

        this.age = age;

    }

}

class Son extends Father {

    int son\_age;

public Son(int father\_age, int son\_age) throws WrongAge{

        super(father\_age);

    if (son\_age < 0) {

            throw new WrongAge("Son's age cannot be negative.");

        }

      if (son\_age >= father\_age) {

throw new WrongAge("Son's age cannot be greater than or equal to Father's age.");

        }

        this.son\_age = son\_age;

    }

}

public class ExceptionHandling{

    public static void main(String[] args) {

        Scanner input = new Scanner(System.in);

try {

            System.out.print("Enter Father's age: ");

        int father\_age = input.nextInt();

System.out.print("Enter Son's age: ");

            int son\_age = input.nextInt();

Son son = new Son(father\_age, son\_age);

            System.out.println("Father's age: " + son.father\_age);

            System.out.println("Son's age: " + son.son\_age);

}

catch (WrongAge e) {

System.out.println("Error: " + e.getMessage());

        }

catch (Exception e){

System.out.println("Unexpected error: " + e.getMessage());

        }

}

}

OUTPUT

