**Program:6(Handeling of exceptions in inheritance tree )**

import java.util.Scanner;

class fatherAgeException extends Exception

{

public String toString(){

return("Father's age is less than 0");

}

}

class sonAgeException extends Exception{

int a;

sonAgeException(int age){

a=age;

}

public String toString(){

if(a<0)

return ("Son's age is less than 0");

else

return ("Son's age is more than Father's age");

}

}

class Father{

int age;

Scanner in=new Scanner(System.in);

Father(){

System.out.print("Enter the father's age");

age=in.nextInt();

}

void ex1() throws fatherAgeException

{

if(age<0)

throw new fatherAgeException();

}

}

class Son extends Father{

int age;

Son(){

System.out.println("Enter the age of son:");

age=in.nextInt();

}

void ex2() throws sonAgeException{

if(age<0||age>super.age){

throw new sonAgeException(age);

}

}

}

class Except{

public static void main(String[]args){

Son s=new Son();

try{

s.ex1();

}

catch(fatherAgeException e){

System.out.println(e);

}

try{

s.ex2();

}

catch(sonAgeException e){

System.out.println(e);

}

}

}

**Output**

