Dukshith B Eauption Handling import gava util, scarrer; class whong dge Exception extends Exception & public whong dge Exception ( String message) & super (massage); Verne Mario class Fathers private int age; public Father (in age) thorows wrong Agr Esceptions throw me werengage supplier I "Age warnet 3 be regetion") 行证证证 public int sondal;

class Son extends Futhers Father for Suystem. - + douts public bon lint Father Age, int sonAge thorones accompage Exception Super father Age), System. 6 nod tru at (sordore > = gatherAge) &

throw rew library raceptor ("Son's ug,
should be less than Father's ouge), System catal ( this son Age = son Age, System pulder int get Son Age U.S. class gareptontanding Remo { out public State void main (String [] argle Enter F Scanda stance - new Scancer 1 Systems 50 Enter Jug & Bystem, out, print ("Enter Faithe's Africant forther Age = "Scanner. restrictly Fatt Son

Father felton = new Father ( talker Acg),
System out printle ("Father's Acgs
+ doubler oget Agel)), or tendage System-out pounts ("Son's Age")

unt Son Age = scanner result ()

Son son - new Son (father, got Age), songer

System-out pounts ("Son's Age" + son get so Age) Catul ( vorioneptage Escription e) &

System - out. pourth ("Escription raugh" + e

get Missage ()); finally & scanner. close(), output bring [ ] args) & Enter Fathors age Enter Son's age Father's age: 40 Sor 's age: 25 in Faiths's Age resit Int ();

## Deekshith B 1BM22CS082

```
import java.util.Scanner;
class WrongAge extends Exception
{
public WrongAge(String str)
{
super(str);
}
}
class Father
{
int fatherAge;
Father(int fatherAge) throws WrongAge
{
this.fatherAge = fatherAge;
if(fatherAge<0)
throw new WrongAge("Father's Age cannot be less than zero");
}
}
class Son extends Father
{
int sonAge;
Son(int fatherAge,int sonAge) throws WrongAge
{
super(fatherAge);
this.sonAge = sonAge;
```

```
if(sonAge<0)
throw new WrongAge("Son's Age cannot be less than zero");
if(sonAge>=fatherAge)
throw new WrongAge("Son's age cannot be greater than or equal to Father's age");
}
}
class AgeExceptionMain
{
public static void main(String[] args)
{
Scanner input = new Scanner(System.in);
System.out.print("Enter father's age: ");
int fatherAge = input.nextInt();
System.out.print("Enter son's age: ");
int sonAge = input.nextInt();
try{
Son son = new Son(fatherAge,sonAge);
System.out.println("Father's and Son's age are valid");
}catch(WrongAge e){
System.out.println("Exception: " + e);
}
}
}
```

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Enter father's age: 50

Enter son's age: 20

Father's and Son's age are valid

Enter father's age: 50

Enter son's age: 60

Exception: WrongAge: Son's age cannot be greater than or equal to Father's age

Enter father's age: -1

Enter son's age: 20

Exception: WrongAge: Father's Age cannot be less than zero

Enter father's age: 0

Enter son's age: 20

Exception: WrongAge: Son's age cannot be greater than or equal to Father's age

Enter father's age: 0

Enter son's age: -1

Exception: WrongAge: Son's Age cannot be less than zero