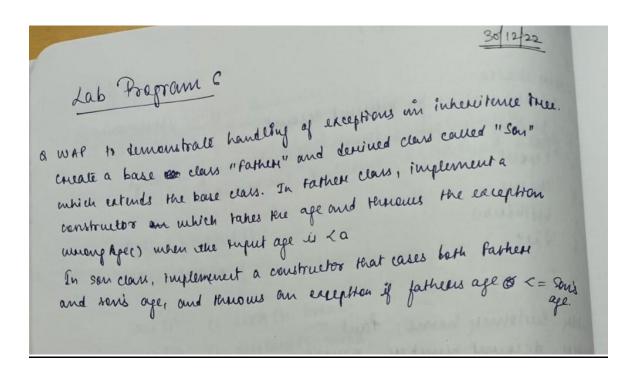
## **QUESTION:**

Write a program that demonstrates handling of exceptions in inheritance tree. Create a base class called "Father" and derived class called "Son" which extends the base class. In Father class, implement a constructor which takes the age and throws the exception WrongAge() when the input age<0. In Son class, implement a constructor that cases both father and son's age and throws an exception if son's age is >=father's age.



## **WRITTEN CODE**

```
import java. util scannere;
class Invalle age Exception extends Exception
 public Inward Age Exception (String sto)
       super(sto)
claus father &
         but age;
         forther () throws Iward Age Exception ?
              Scanner ss = new scanner (system. M);
              system. out. printer ("Enter Fatheris Age!");
              age = ss. heal-sut ();
               if (age < 0) {
                   throw new Invalid Age Exception ("age is negative");
               Use i System out. probable ("Puga
```

```
class son extends father &
           Put age;
          Son () throws Invalid age Exception 2
                 Scommen 25 = new Scommen (System. In);
                  System out printer (" Enter Seris age: ");
                   age = ss.nextsut();
                   if (age >= supenage) (
                        therow new Small bye Exception ("Sais kge werry").
                  else 1
                     System out portuth ("Proper Age");
class frymain &
    public static usid main (String xx(3) 2
            try 4
                    Son SI = new Son();
            conten (Invacte Age Exception ex) t
                      systems. out. prouter (ex) :
        y
```

OUTPUT: O Enher fatheris the 80 Invalle Age Exception, Repatrice 32 Maria (3) Enter fatheris Age: 20 Proper Age from 220 was I wastit by trupped I Sone Assurany Invalid de Exception: sonis the is uneury 3 Enter fatheris tope goul! white the mostly? 23 proper age Enter Son's Age 20 proper age.

## **OUTPUT**

```
C:\Users\anosh\OneDrive\Desktop\java practice>java fsmain
Enter Father's Age:
20
Proper Age
Enter Son's Age:
12
Proper Age
C:\Users\anosh\OneDrive\Desktop\java practice>java fsmain
Enter Father's Age:
30
Proper Age
Enter Son's Age:
45
InvalidAgeException: Son's Age is Wrong
C:\Users\anosh\OneDrive\Desktop\java practice>java fsmain
Enter Father's Age:
-23
InvalidAgeException: age is negative
C:\Users\anosh\OneDrive\Desktop\java practice>java fsmain
Enter Father's Age:
34
Proper Age
Enter Son's Age:
InvalidAgeException: Son's Age is Wrong
```