Lab - 7

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.

```
import java.util.*;
class triang WrongAge extends exception
{ private static final long Serial Version UID = 1L;
  String str;
  WrongAge(String s)
    {str = s;
    }
   public String toString()
    { return "Wrong Age: "+str;
    }
}
class Father
{ public int age;
   public Father(int a) throws WrongAge
    { age = a;
      if(a<0)
       throw new WrongAge("Age cannot be than 0");
      else
       System.out.println("Valid");
    }
}
```

```
class Son
{ Son(int s, int f) throws WrongAge
  { if(B>=f)
    throw new WrongAge("Age cannot be less than 0");
    else
    System.out.println("Valid");
  }
}
class prog8
{ public static void main(String args[])
  { try
    { Scanner sc = new Scanner(System.in);
      int f, s;
      System.out.print("Enter Son's age : ");
      s = sc.nextInt();
      Father ob1 = new Father(f);
      Son ob2 = new Son(s, f);
    }
    catch(WrongAge e)
    { System.out.println(e);
    }
}
```

Output

```
Enter father's age: 45
Enter Son's age: 15
Valid
Valid
```