LAB Write a program that demonstratel handling of enceptions in inheritance tree lueate a base elegenceptions in inheritance tree lueates a base elegenceptions in inheritance tree lueates a base elegenceptions in inheritance tree lueates a base elegenceptions are a base elegenceptions and a base elegenceptions are a base elegenception and a base elegenception are a base elegenception are a base elegenception and a base elegenception are a bas called "Father" and devined class called "Son" which entends the base class. In father the implements a constructor which takes the ag and throws enception wrong Age () when the input age to In Ion wars, implement a constructor that uses both father and ton's of and therows an enception if lon's age ! father's age. import . java util *; class wrong Age entends Enception & public Hass Wrong Age (Itring mersage) \$ super (message); class Father & int fage i public Fathou (int age) throws wrong Age of if lage \$ LO) throw new wrong Age l'Feither age cannot be negative!): this Jage = gage; Tystem · out · println ("Father age: "+ age); class don extends Father d int Ion Age; public son l'int jage, int sonage) therows wrong Agel super (Jage);

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                     wrong Age (" Non age cannot be negative")
lass
          (lon Age &= fage) &
Clery
       thuow new wrong Ace ("lon's age cannot be queater
                                or equal to father age");
the
         this lonage = lonage;
age
        System out println (" son age: " + sonAge);
     public class Inheritance Enception Demo 5
     public static void main (string args = ) &
               J=new Father (45);
              8= new 10n (45,20).
      Son
    catch (wrong Age e) &
      Tystem out pointln ("Enception caught: "+ e.get herage())
    Jather f= new Lather (-5);
   catch (wrong Age e) &
    Tystem. out . println ("Enception caught: "+ e.get Hersage ()):
  try &
        1=new 1on (40, 50);
 Cotch ( wrong Age e) d
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             new wrong Age (" Non age cannot be negative")
B
     if (lonAge &= fage) &
     thuow new wrong Acq ("lon's age cannot be queater
                              or equal to father age");
       this lonage = lonage;
       System out println (" son age: " + son Age);
    public class Inheritance Enception Denso 5
    public static void main (string args ) &
              J=new Father (43);
            8= new 10n (45,20)
     Son
   catch dwrong Age e) &
     Tystem out pointln ("Enception caught: "+ e.get hersage())
             J=new Father (-5);
  catch (wrong Age e) &
    Mystem . out . println ("Enception caught: "+ e.got Hersage ()
  try &
         1=new lon (40, 50);
Catch ( wrong Age e) d
                                    caught: "+ e.get Hersage)
   Juston nut minten (" Exception
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Dutput! Father's age: #45 Father's age: 45 Son's age: 20 Enception caught: Fatheri's age cannot be negro Fatheris age: 40 Enception caught: son's age cannot be queater than or equal to fatheris age Entra Programs 2) File: test. tret is missing. Prease check bothon his
file name 3 > Prease enter your age - Numeric value you am not authorized you am authorized. 44 java lang Arithematic Enception: / by xent at GFGI. main (GFGI java:9) java lang Arithernatic Enception: 1 by xero java lang, Arithernatic Enception: 1 by xello you typed 23

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