ulleite a java perogram that idemonsterate Kologramiz: exceptional handling of inhoutance tere. clais "father" & derived class "Son". -> closes werong Age extends Exception ? public werong Age () é super l'idge cannot be negative"); class riput inputs entinds Exceptions
public input () {

super("ubrong input"); dege dter class father! ette public unt age; Ste Father ( int age) throws werong Age ( if lage>0) & throw new weing Agel; ithis.age = age; Stu class don extends Fatherl int s-age; don lint &-age, int s-age) therows wrong Age, superlf-age);
if lf-age <0 & & s-age <0);
ithrow new wrong Agel); at els e if (f-age <= s-age) {

itherow new imput()=; this . o-age; public class I ( dt. public statatic void main(string[] augs){

itery ; father f=new Father(40); obystem. out, pointln ("Father's age: "f.age); don is new don(40,50); dystem. out. paintln ("son's age: "+ s. sage); 3 catch Lewrong Age 1) { dystem out pointly le to desing(); iatch limput act dystem.out. paintln (ac. tostring()); algorithm: Step 1 : Start step 2: Initialise variable fage, is age Step 3: Greate user defined exception class whong Age extends Exciption of public invenagage () ( super ("Age cannot be negative") Meleate another meet defined exception chais imput extends Exceptions public imput 1) t (" tugari proudu ") voque ong Age, dtep 5: Lucate class, Fatherl public intage; Fatherlint age throws wrong Age & if lage > 0) [ therow new exception werong Age (); \$ this age : age; class student extends father & Don (int fage, int sage) thousas wrongstopt, inputs
super (fage); depo: weate

```
else if (+-age <= & age) {
System.out.perintln(therow new input);
               this. & age = & - age;
  Muite
           a perogram which weate & thread
                                                                dlg
           one is executed every cosecond & another
                                                                dte
  fog Ede cond.
                                                                 dte
  class one extends thread!
                                                                 at.
      public void sun(){
           int i = 0;
                                                                 alt
           while like 2) }
                 digitem, out pointly l'BMS collège of
                    Engineering");
                 Thread. sleep (1000);
               Gratch (Freetim 1) {
                   dystem out. phintln(e.to dbing ());
class Two extends Theread !
     public used run () i
           int i=0;
           enhile (i (2) }
                  dystemout println ("(BE");
                  Thurad elep (2000);
               3 catch (Exception e)(
                  dystem. aut. perinten ( e. to steing ());
                                                                 dit
```

if (+-age Lo & & s-age Lo) & whong Age ();

```
public stars I !
                 public static void main ( detaing ( ) augs) {
                       One ti-new Onell;
input 1);
                       Iwo te = new Iwo();
                       tr. start();
and
           dlapuithm:
acnot her
           dtep: dtaut
           Step 2: Initialize variable i=0
           at ep 3: Constant a class one 2 two which
                    ertends Thread.
           det op 4: Minder ulass one weate method sund),
               underwhile (i < 5){
                      dystem. out. "Raintl" BMS college of Engineering");
0/
                                 Keep Theread in sleep(1000)
                             Gratch (Exception e) {
                      dystem. out. fruint (e. ito dtoing ().);
          otop5: Under class Iwo create method scian ()
                under which, while [125] {
                    dystem.out.print Print ("CSE")
                              I eateh (Exception e) {
                            dystem. out. printh(e, to dtring())
          dieps: ferente la main class
                      cho call class One ti= new Onel);
                         Earl class Iwo tr=new Iwol);
                       ti staut ()
                        tr. starte)
```

alter 7: alter Output: 1) Continuation of to per algorithm of program 7 Step 7: call main class I's toy's calling classer, father f = new father (40); age: "+4, age) cald class, don s: new don 40, 56);
System out println ("don's age: "182. age) 's coatch (Exception e) dystem. out poundly (e. todteing ()): eatch (Exception e) & eater (wrong Age w)d dystem. out pointln (w. todteing())= eatch Cinput i) { dystem. out. println (i. todtring()) Step 8: Stop. but put . I we were wind up and will be the (i) Father's input: Whong input
(ii) whong fae: Age cannot be negative
(iii) Father's Age: 40 8) Output: BMS coblege of Engineering CSE CSE BMS college of Engineering

16.0a.24

D:\java\oops>javac J.java

D:\java\oops>java J

Program 7

Name: Aditya Dinesh Netrakar

USN: 1BM22CS017

input: Wrong input

D:\java\oops>

D:\java\oops>javac I.java

D:\java\oops>javac I.javac

D:\java\oops>javac I.javac

D:\javac

D: