30/2/22 white a program that demostrates handles of enceptions in inheritance the create a los dan called "Fathe" and derived class called "Sonwhich extends the base class In father class implement a constructor which takes the age throws the exception wrong Agr() when the infant age co. In son class simplement a constructor that cases both father and ron's age and throng exception if son's age >= fathers age import java. util-scamer) class nozeroase entends Exception & public string to String() & return "Age campet be lessen than zero" 17 class not less tangather entends. Exception

Le public string to string()

Le returg "Age count be less than father"; } Class Father System out printer (" Enter ge of Fatheri"); age = SS neutInt (), 3 vail checkage () thrown nozeroage (lie system out printh ("The age of the father is "+ age);

class Son entered father Int age 1 Son () & signnerss = new scamper (system is); System. out frintly ("Puter the age of the son"); age 1: 55. new Jut 1); } void checkAge ( ) throws not levelanfather, ngwage\_ 2 if (agel (0) { throw new ngeroagel); } if (age 1 > = ago) & throw now notlanta fother ();} else system out frintly ("The age of the father is" 1 age + " and son is" + age 1); & public static void main (string xx()) In Father f1 = vew Father() try & fl. chock Age (1) } Catch (nozerocye as) { System · Out-printly (00);} Son Si new Son (); My { SI. chechage () ) SI. Checkfall (1; } (atch (nozerocye ne) & system ont frinthe (ae); 3 catch (not lestla fater me) { Syster out frinty (me); } Enter the age of the father -1 Aggr count be less than zero hiter the age of the father: The my of the father is :30 the eye of the father as is a and son is: 12

Enter the age of the father is ? 90 Inter the ogy of the son: - 7 the age of fathe is:34 Age course he dess how zero Enter the age of the father: So The age of two father: So Enter ag of Jather: So
Thater: age of son: 32
The age of Jather: So the age of father: So and soir :32 But the age of father: -Z Age canot let lever than zero Enter the age of the father - 2 Enter the age of the son: 3 Age canot be lever than zero Enter the age of the father: 50 The Age of the Jother: 50 Enter the age of the father: So. Enter the age of the Son: 60 Age cannot be lesser than father

## Command Prompt Enter the age of the father: -1 Age cannot be lesser than zero Enter the age of the father: 34 Enter the age of the son: 12 The age of the father is: 34 The age of the father is: 34 and son is: 12 C:\Users\Aditi Suhrut\Documents\Aditi\Java>java mainage Enter the age of the father: 40 The age of the father is: 40 Enter the age of the father: 34 Enter the age of the son: The age of the father is: 34 Age cannot be lesser than zero C:\Users\Aditi Suhrut\Documents\Aditi\Java>java mainage Enter the age of the father: 50 The age of the father is: 50 Enter the age of the father: 50 Enter the age of the son: 32 The age of the father is: 50 The age of the father is: 50 and son is: 32 C:\Users\Aditi Suhrut\Documents\Aditi\Java>java mainage Enter the age of the father: 34 The age of the father is: 34 Enter the age of the father: 34 Enter the age of the son: The age of the father is: 34 Age cannot be lesser than zero

## Command Prompt

```
C:\Users\Aditi Suhrut\Documents\Aditi\Java>java mainage
Enter the age of the father:
- 2
Age cannot be lesser than zero
Enter the age of the father:
-2
Enter the age of the son:
Age cannot be lesser than zero
C:\Users\Aditi Suhrut\Documents\Aditi\Java>java mainage
Enter the age of the father:
50
The age of the father is: 50
Enter the age of the father:
50
Enter the age of the son:
60
The age of the father is: 50
Age cannot be lesser than father
C:\Users\Aditi Suhrut\Documents\Aditi\Java>java mainage
Enter the age of the father:
-1
Age cannot be lesser than zero
Enter the age of the father:
Enter the age of the son:
-2
Age cannot be lesser than zero
```