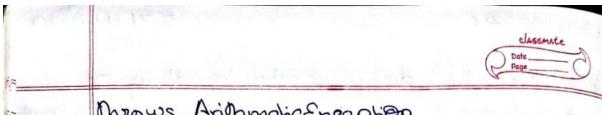
USN:1BM19CS216

NAME:YASHASWINI SHAH

DATE:27/11/2020

LAB 8: 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.

18m1905216 27/11/2020 1 do 8: WAP that demonstrates handt expections in inheritance tree. called Father and derived class "S which extend the base cla implement a constructor Wrong Age() implement a con That cases both father and son's Arous an expection if son's 1=father's age. class Father Static void accept Name F (int input Age) Ownous ArinnelicException (input Age 20) Onrow new Arithmetic Exception (wrong Age catch (Arishmetic Espection e) ? System. out, printin ("Cought" + e); Son extends Father. void ChecksFage (int S.Age, int F stalic



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	\$
- 5-33-2	try &
4.5	
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	Should be smaller than father's age.
	System.out. printin ("Son's age is "+ S Age "Fadiers age is "+ F Age);
2,	Sustement Front C"Son's age is "+ I Age
9	"Fadriers age is " + FAge 1."
	3
	Catch (Arimmolic Exception e) { System.out. println ("Flaught" + e);
4	System. out. println ("FCaught" + e);
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	poblic static void noin (String args [])
	public static void main (String args [])
	Father. acceptNanof(-1); Son. CheckS Fage (40, 20);
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```
class Father
static void acceptNameF(int inputAge) throws ArithmeticException
try
{
if(inputAge<0)
throw new ArithmeticException("Wrong Age");
catch (ArithmeticException e) {
System.out.println("Caught " + e);
}
}
class Son extends Father
static void CheckSFage(int S_Age, int F_Age) throws ArithmeticException
{
try{
if(S_Age>=F_Age)
throw new ArithmeticException("Son's age should be smaller than father's age ,wrong age");
System.out.println("Son's age is"+S_Age+"Fathers age is "+F_Age);
catch (ArithmeticException e) {
System.out.println("FCaught " + e);
}
}
public class ExceptionHandling{
public static void main(String args[]) {
Father.acceptNameF(-1);
Son.CheckSFage(40,20);
}
```

OUTPUT:

