## Lab Program 6:

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.

## Code:

Page	
LAB PROGRAM 6:	
exceptions in inhartence true Custe a base chan called "Father" and derived class called	There was Way Age Exception ("Fisher agents  There was the form of the manager of the agents  Void display () ? I have a get age to the agents  Void to applay () ?
"Son" which octands the base class in Figher class, implement a constructor which to ke the age and throws the occuption wrongfige () when the input age () In Son class, implement a constructor that cases both father and son's age	the acquetonion puntarion distant the second
and thous an occuption y son's age is ??	Son () throws throughou Exception ?  Son () throws throughou Exception?  Scance S = new Scance (Systemia)
class Wrong Age Exception extends Exception? Stain may = new Stain (); wrong Age Exception (Stain 2)?	System out printin ("Enterson's age");  Sage = s. next Int ();  (sage 2 should sail and market sails  if (sage 20) ? pour mills
public stay to string (Id ) is old return meg;	thouse new Lorang Age Exception (" Son age Co");
class Fother ?  Tother () throw Wrong Age Exception ?	thrownew whorptoge Exception ("Son Age" 15 > Hot lather's eye!").
System out printly ("Enter Forthe's age:");  1- ag = 8. north();	System out printh ("Father's ege" " + p - agin System out printh ("Father's ege" " + s - agent
if (frage 40) ?.	2. Carrier of the state of the

	Onte	
chow carep?  public static void man (String [] args)?  try?  son = rew son ();  sodisplay();  atch (way Aze Exception wa)?  System out pinth (wae);;  3		
2 t Case:  Enter Fother's age:  65  Enter son's age:  32  Father age: 65  Son age: 32.  2nd Case  Enter Father's age:  -2  Father age 60	eth Case: Enter Folke's age: 43 Enter Son's age: 45 Son age is > that Folke's age!	
3rd Cax Enter Fathais age: 34 Enter Son's age: -2 Son age L O		

## Output:

## Command Prompt

```
C:\Users\bmsce\Desktop\cs014>javac excep.java
C:\Users\bmsce\Desktop\cs014>java excep
Enter father's age:
65
Enter son's age:
32
Father age: 65
Son age: 32
C:\Users\bmsce\Desktop\cs014>java excep
Enter father's age:
-2
Father age < 0
C:\Users\bmsce\Desktop\cs014>java excep
Enter father's age:
Enter son's age:
-2
Son age < 0
C:\Users\bmsce\Desktop\cs014>java excep
Enter father's age:
43
Enter son's age:
Son age is > that father's age!
C:\Users\bmsce\Desktop\cs014>
```