

LAB PROGRAM-6

```
import java.util.Scanner;  
  
class WrongAgeException extends Exception {  
    public String toString() {  
        return ("Entered age is negative");  
    }  
}  
  
class AgeException extends Exception {  
    public String toString() {  
        return ("Age entered of the father is  
        greater than that of the son");  
    }  
}  
  
class Father {  
    int father-age;  
    Father (int x) throws WrongAgeException  
    {  
        father-age = x;  
        if (father-age < 0) {  
            throw new WrongAgeException();  
        }  
    }  
}
```

```

class Son extends Father {
    int son-age;
    Son (int x, int y) throws AgeException {
        WrongAgeException {
            super (x);
            son-age = y;
            if (son-age < 0) {
                throw new WrongAgeException ();
            }
        }
    }
}

```

```


class Son extends Father {
    int son-age;
    Son (int x, int y) throws AgeException,
        WrongAgeException {
            super (x);
            son-age = y;
        }
    }
}


```

class Lab_7 {

public static void main (String [] args) {
try {

Scanner s = new Scanner (System.in);

System.out.println ("Enter father's and
son's ages");

int x = s.nextInt();

int y = s.nextInt();

So so = new So (x, y);

System.out.printf ("Father is %d years
old and son is %d years old", so.father
so.son-age);

} catch (WrongAgeException wa) {

System.out.println (wa);

}

catch (Exception e) {

System.out.println ("Enter valid
values");

}
}

Output.

Enter father and son's ages

60
30

Father is 60 years old and son is 30 years old

Enter father and son's ages

30
70

Age entered of the son is greater than that of the father.

Enter father and son's ages

-30
70

Entered age is negative solution

Output.

Enter father's and son's ages

60

30

Father is 60 years old and son is 30 years old

Enter father's and son's ages

30

70

Age entered of the son is greater than that of the father.

Enter father's and son's ages

-30

70

Entered age is ~~negative~~ solution

```
Microsoft Windows [Version 10.0.19043.2251]
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C:\Users\bmsce>CD C:\Users\bmsce\Desktop\1BM21CS036

C:\Users\bmsce\Desktop\1BM21CS036>javac Lab_7.java

C:\Users\bmsce\Desktop\1BM21CS036>java Lab_7
Enter father's and son's ages
60
30
Father is 60 years old and son is 30 years old

C:\Users\bmsce\Desktop\1BM21CS036>java Lab_7
Enter father's and son's ages
30
70
Age entered of the son is greater than that of the father

C:\Users\bmsce\Desktop\1BM21CS036>java Lab_7
Enter father's and son's ages
-30
70
Entered age is negative

C:\Users\bmsce\Desktop\1BM21CS036>
```