

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 n) throws WrongAgeException {  
        father_age = n;  
        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();
    }
    if (son_age >= father_age) {
        throw new AgeException();
    }
}
}
}

```

```

class Lab_7 {
    public static void main(String[] args) {
        try {
            Scanner s = new Scanner(System.in);
            System.out.println("Enter father and son's ages");
            int x = s.nextInt();
            int y = s.nextInt();
            Son so = new Son(x, y);
            System.out.println("father is " + so.father_age + " years old and son is " + so.son_age + " years old");
        } catch (WrongAgeException wa) {
            System.out.println(wa);
        }
        catch (Exception e) {
            System.out.println("Enter valid values");
        }
    }
}

```


Output

Enter father's and son's ages

-12 -10

Entered age is negative

Enter father's and son's ages

40 10

Father is 40 years old and son is 10 years old

Enter father and son's ages

ee

Enter valid values

~~Enter father and son's ages~~

~~10 20~~

Age entered of son is greater than father

~~30/12/2020~~


```
C:\Users\bmsce\Desktop\javaw7>javac Lab_7.java
```

```
C:\Users\bmsce\Desktop\javaw7>java Lab_7
```

```
Enter father's and son's ages
```

```
10 20
```

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

```
C:\Users\bmsce\Desktop\javaw7>java Lab_7
```

```
Enter father's and son's ages
```

```
40 10
```

```
Father is 40 years old and son is 10 years old
```

```
C:\Users\bmsce\Desktop\javaw7>java Lab_7
```

```
Enter father's and son's ages
```

```
-10 30
```

```
Entered age is negative
```

```
C:\Users\bmsce\Desktop\javaw7>java Lab_7
```

```
Enter father's and son's ages
```

```
-12 -10
```

```
Entered age is negative
```