

30/1/24

## LAB-07

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Date:

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- ① write a Program that demonstrates handling of Exceptions in . Create a table class called 'Father' & derived class called 'Son' which extends the base class . on Father class throws the Exception wrong Age() When the frontAge() on son class Implement a that class both father & son's age & throws an exception if son's age is  $\geq$  Father's age.

```
import java.util.*;
Scanner WrongAge extends Exception
```

```
{
    public WrongAge (String message)
```

```
{
    super(message);
}
```

```
}

class Input Scanner
```

```
{
    protected Scanner in;
    public Input Scanner()
```

```
{
    in = new Scanner (System.in);
}
```

```
}

class Father extends Input Scanner
```

```
{
    protected int FatherAge;
```

```
    public Father() throws WrongAge
```

```
{
    System.out.println ("enter Father's age:");
```

```

    FatherAge = s.next Int ();
    if (FatherAge < 0)

```

```

        throw new WrongAge ("Age cannot be
        negative");
    }
}

```

```

    public void display ()

```

```

    {
        System.out.println ("Father's age:
        " + FatherAge);
    }
}

```

```

class Son extends Father
{

```

```

    protected int sonAge;

```

```

    public Son() throws WrongAge
    {

```

```

        System.out.println ("enter son's age");
        sonAge = s.next Int ();
        if (sonAge >= FatherAge)

```

```

        throw new WrongAge ("son's age
        can't be greater than or equal to
        father's age");
    }

```

```

    if (sonAge < 0)
    {

```

```

        throw new WrongAge ("Age cannot be
        negative");
    }
}

```



```
public void display()
{
    super.display();
    System.out.println("Son's Age: " + sonAge);
}

public class Main2
{
    public static void main (String args[])
    {
        try
        {
            Son son = new Son();
            son.display();
        }
        catch (WrongAge e)
        {
            System.out.println("Error: " + e.getMessage());
        }
    }
}
```

### Output:-

enter Father's age;

25

enter Son's age;

25

Error: Son's age can't be greater than  
or equal to father's age.

enter Father's age;  
-35

Error: Age Cannot be negative

enter Father's Age;  
34

enter Son's age;  
-9

Error: Age Cannot be negative

enter Father's age;  
35

enter son's age;  
13

Father's age: 35

son's age: 13

~~Shashank SP~~

1Bm20CS256

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